

Crystal labelled AP as of 100907 (63); by release date.

(63) **2X98** H.SALINARUM ALKALINE PHOSPHATASE

Supercedes: 2W0Y

Authors: Wende, A., Johansson, P., Grininger, M., Oesterhelt, D.

Release Date: 2010-05-19

Experiment: X-RAY DIFFRACTION with resolution of 1.70 Å

(62) **3A52** Crystal structure of cold-active alkailne phosphatase from psychrophile Shewanella sp.

Authors: Tsuruta, H., Mikami, B., Higashi, T., Aizono, Y.

Release Date: 2010-04-14

Experiment: X-RAY DIFFRACTION with resolution of 2.20 Å

(61) **3LXQ** The Crystal Structure of a Protein in the Alkaline Phosphatase Superfamily from Vibrio parahaemolyticus to 1.95Å

Authors: Stein, A.J., Weger, A., Duggan, E., Clancy, S., Joachimiak, A., Midwest Center for Structural Genomics (MCSG)

Release Date: 2010-03-09

Experiment: X-RAY DIFFRACTION with resolution of 1.95 Å

(60) **2W8S** CRYSTAL STRUCTURE OF A CATALYTICALLY PROMISCUOUS PHOSPHONATE MONOESTER HYDROLASE FROM BURKHOLDERIA CARYOPHYLLI

Authors: Jonas, S., Van Loo, B., Hyvonen, M., Hollfelder, F.

Release Date: 2010-02-23

Experiment: X-RAY DIFFRACTION with resolution of 2.40 Å

(59) **2W5V** STRUCTURE OF TAB5 ALKALINE PHOSPHATASE MUTANT HIS 135 ASP WITH MG BOUND IN THE M3 SITE.

Authors: Koutsioulis, D., Lyskowski, A., Maki, S., Guthrie, E., Feller, G., Bouriotis, V., Heikinheimo, P.

Release Date: 2009-11-24

Experiment: X-RAY DIFFRACTION with resolution of 1.78 Å

(58) **2W5W** STRUCTURE OF TAB5 ALKALINE PHOSPHATASE MUTANT HIS 135 ASP WITH ZN BOUND IN THE M3 SITE.

Authors: Koutsioulis, D., Lyskowski, A., Maki, S., Guthrie, E., Feller, G., Bouriotis, V., Heikinheimo, P.

Release Date: 2009-11-24

Experiment: X-RAY DIFFRACTION with resolution of 1.79 Å

(57) **2W5X** STRUCTURE OF TAB5 ALKALINE PHOSPHATASE MUTANT HIS 135 GLU WITH MG BOUND IN THE M3 SITE.

Authors: Koutsioulis, D., Lyskowski, A., Maki, S., Guthrie, E., Feller, G., Bouriotis, V., Heikinheimo, P.

Release Date: 2009-11-24

Experiment: X-RAY DIFFRACTION with resolution of 1.99 Å

(56) **3DPC** Structure of E.coli Alkaline Phosphatase Mutant in Complex with a Phosphorylated Peptide

Authors: Wang, W.H., Jiang, T.

Release Date: 2009-06-16

Experiment: X-RAY DIFFRACTION with resolution of 2.30 Å

(55) **3E2D** The 1.4 Å crystal structure of the large and cold-active *Vibrio* sp. alkaline phosphatase

Authors: Helland, R., Larsen, R.L., Asgeirsson, B.

Release Date: 2009-06-16

Experiment: X-RAY DIFFRACTION with resolution of 1.40 Å

(54) **3BDF** Crystal structure of metal-free E. coli alkaline phosphatase (T155V)

Authors: Grigg, J.C., Murphy, M.E.

Release Date: 2008-11-25

Experiment: X-RAY DIFFRACTION with resolution of 1.40 Å

(53) **3BDG** Crystal structure of wild-type/T155V mixed dimer of E. coli alkaline phosphatase

Authors: Grigg, J.C., Murphy, M.E.

Release Date: 2008-11-25

Experiment: X-RAY DIFFRACTION with resolution of 1.40 Å

(52) **3BDH** Crystal structure of zinc-deficient wild-type E. coli alkaline phosphatase

Authors: Grigg, J.C., Murphy, M.E.

Release Date: 2008-11-18

Experiment: X-RAY DIFFRACTION with resolution of 1.85 Å

(51) **3DYC** Structure of E322Y Alkaline Phosphatase in Complex with Inorganic Phosphate

Authors: Zalatan, J.G., Fenn, T.D., Herschlag, D.

Release Date: 2008-10-21

Experiment: X-RAY DIFFRACTION with resolution of 2.30 Å

(50) **2VQR** CRYSTAL STRUCTURE OF A PHOSPHONATE MONOESTER HYDROLASE FROM RHIZOBIUM LEGUMINOSARUM: A NEW MEMBER OF THE ALKALINE PHOSPHATASE SUPERFAMILY

Authors: Jonas, S., Hyvonen, M., Hollfelder, F.

Release Date: 2008-09-30

Experiment: X-RAY DIFFRACTION with resolution of 1.42 Å

(49) **3CMR** E. coli alkaline phosphatase mutant R166S in complex with phosphate

Authors: O'Brien, P.J., Lassila, J.K., Fenn, T.D., Zalatan, J.G., Herschlag, D.

Release Date: 2008-07-29

Experiment: X-RAY DIFFRACTION with resolution of 2.05 Å

(48) **2RH6** Structure of Xac NPP for evaluation of refinement methodology

Authors: Zalatan, J.G., Fenn, T.D., Brunger, A.T., Herschlag, D.

Release Date: 2007-10-30

Experiment: X-RAY DIFFRACTION with resolution of 1.45 Å

(47) **2IUC** STRUCTURE OF ALKALINE PHOSPHATASE FROM THE ANTARCTIC BACTERIUM TAB5

Authors: Wang, E., Koutsioulis, D., Leiros, H.K.S., Andersen, O.A., Bouriotis, V., Hough, E., Heikinheimo, P.

Release Date: 2006-11-28

Experiment: X-RAY DIFFRACTION with resolution of 1.95 Å

(46) **2G9Y** Structure of S102T E. coli alkaline phosphatase in presence of phosphate at 2.00 Å resolution

Authors: Wang, J., Kantrowitz, E.R.

Release Date: 2006-10-10

Experiment: X-RAY DIFFRACTION with resolution of 2.00 Å

(45) **2GA3** Structure of S102T E. coli Alkaline Phosphatase-phosphate intermediate at 2.20 Å resolution

Authors: Wang, J., Kantrowitz, E.R.

Release Date: 2006-10-10

Experiment: X-RAY DIFFRACTION with resolution of 2.20 Å

(44) **2GSN** Structure of Xac Nucleotide Pyrophosphatase/Phosphodiesterase

Authors: Zalatan, J.G., Fenn, T.D., Brunger, A.T., Herschlag, D.

Release Date: 2006-08-01
Experiment: X-RAY DIFFRACTION with resolution of 1.75 Å

(43) **2GSO** Structure of Xac Nucleotide Pyrophosphatase/
Phosphodiesterase in Complex with Vanadate
Authors: Zalatan, J.G., Fenn, T.D., Brunger, A.T., Herschlag, D.
Release Date: 2006-08-01
Experiment: X-RAY DIFFRACTION with resolution of 1.30 Å

(42) **2GSU** Structure of Xac Nucleotide Pyrophosphatase/
Phosphodiesterase in Complex with AMP
Authors: Zalatan, J.G., Fenn, T.D., Brunger, A.T., Herschlag, D.
Release Date: 2006-08-01
Experiment: X-RAY DIFFRACTION with resolution of 2.00 Å

(41) **2GLQ** X-ray structure of human alkaline phosphatase in complex
with strontium
Authors: Llinas, P., Masella, M., Stigbrand, T., Menez, A., Stura,
E.A., Le Du, M.H.
Release Date: 2006-04-25
Experiment: X-RAY DIFFRACTION with resolution of 1.60 Å

(40) **1ZEB** X-ray structure of alkaline phosphatase from human placenta
in complex with 5'-AMP
Authors: Llinas, P., Stura, E.A., Menez, A., Kiss, Z., Stigbrand,
T., Millan, J.L., Le Du, M.H.
Release Date: 2005-06-28
Experiment: X-RAY DIFFRACTION with resolution of 1.90 Å

(39) **1ZED** Alkaline phosphatase from human placenta in complex with
p-nitrophenyl-phosphonate
Authors: Llinas, P., Stura, E.A., Menez, A., Kiss, Z., Stigbrand,
T., Millan, J.L., Le Du, M.H.
Release Date: 2005-06-28
Experiment: X-RAY DIFFRACTION with resolution of 1.57 Å

(38) **1ZEF** Structure of alkaline phosphatase from human placenta in
complex with its uncompetitive inhibitor L-Phe
Authors: Llinas, P., Stura, E.A., Menez, A., Kiss, Z., Stigbrand,
T., Millan, J.L., Le Du, M.H.
Release Date: 2005-06-28
Experiment: X-RAY DIFFRACTION with resolution of 1.90 Å

- (37) **1Y6V** Structure of E. coli Alkaline Phosphatase in presence of cobalt at 1.60 Å resolution
Authors: Wang, J., Stieglitz, K., Kantrowitz, E.R.
Release Date: 2005-06-21
Experiment: X-RAY DIFFRACTION with resolution of 1.60 Å
- (36) **1Y7A** Structure of D153H/K328W E. coli alkaline phosphatase in presence of cobalt at 1.77 Å resolution
Authors: Wang, J., Stieglitz, K., Kantrowitz, E.R.
Release Date: 2005-06-21
Experiment: X-RAY DIFFRACTION with resolution of 1.77 Å
- (35) **1SHN** Crystal structure of shrimp alkaline phosphatase with phosphate bound
Authors: de Backer, M.M.E., McSweeney, S., Lindley, P.F., Hough, E.
Release Date: 2004-08-31
Experiment: X-RAY DIFFRACTION with resolution of 2.15 Å
- (34) **1SHQ** Crystal structure of shrimp alkaline phosphatase with magnesium in M3
Authors: de Backer, M.M.E., McSweeney, S., Lindley, P.F., Hough, E.
Release Date: 2004-08-31
Experiment: X-RAY DIFFRACTION with resolution of 2.00 Å
- (33) **1MVO** Crystal structure of the PhoP receiver domain from Bacillus subtilis
Authors: Birck, C., Chen, Y., Hulett, F.M., Samama, J.P., Structural Proteomics in Europe (SPINE)
Release Date: 2002-10-16
Experiment: X-RAY DIFFRACTION with resolution of 1.60 Å
- (32) **1K7H** CRYSTAL STRUCTURE OF SHRIMP ALKALINE PHOSPHATASE
Authors: De Backer, M.E., Mc Sweeney, S., Rasmussen, H.B., Riise, B.W., Lindley, P., Hough, E.
Release Date: 2002-07-31
Experiment: X-RAY DIFFRACTION with resolution of 1.92 Å
- (31) **1EW8** ALKALINE PHOSPHATASE (E.C. 3.1.3.1) COMPLEX WITH PHOSPHONOACETIC ACID

Authors: Holtz, K.M., Stec, B., Myers, J.K., Antonelli, S.M.,
Widlanski, T.S., Kantrowitz, E.R.
Release Date: 2002-05-01
Experiment: X-RAY DIFFRACTION with resolution of 2.20 Å

(30) **1EW9** ALKALINE PHOSPHATASE (E.C. 3.1.3.1) COMPLEX
WITH MERCAPTOMETHYL PHOSPHONATE

Authors: Holtz, K.M., Stec, B., Meyers, J.K., Antonelli, S.M.,
Widlanski, T.S., Kantrowitz, E.R.
Release Date: 2002-05-01
Experiment: X-RAY DIFFRACTION with resolution of 2.00 Å

(29) **1KH4** E. COLI ALKALINE PHOSPHATASE MUTANT (D330N)
IN COMPLEX WITH PHOSPHATE

Authors: Le Du, M.H., Lamoure, C., Muller, B.H., Bulgakov,
O.V., Laje, E.
Release Date: 2002-03-27
Experiment: X-RAY DIFFRACTION with resolution of 2.40 Å

(28) **1KH7** E. COLI ALKALINE PHOSPHATASE MUTANT
(D153GD330N)

Authors: Le Du, M.H., Lamoure, C., Muller, B. H., Bulgakov,
O.V., Laje, E.
Release Date: 2002-03-27
Experiment: X-RAY DIFFRACTION with resolution of 2.40 Å

(27) **1KH5** E. COLI ALKALINE PHOSPHATASE MUTANT (D330N)
MIMIC OF THE TRANSITION STATES WITH ALUMINIUM
FLUORIDE

Authors: Le Du, M.H., Lamoure, C., Muller, B.H., Bulgakov, O.,
Lajeune, E.
Release Date: 2002-03-13
Experiment: X-RAY DIFFRACTION with resolution of 2.00 Å

(26) **1KH9** E. COLI ALKALINE PHOSPHATASE MUTANT
(D153GD330N) COMPLEX WITH PHOSPHATE

Authors: Le Du, M.H., Lamoure, C., Muller, B. H., Bulgakov,
O.V., Laje, E.
Release Date: 2002-03-13
Experiment: X-RAY DIFFRACTION with resolution of 2.50 Å

(25) **1KHJ** E. COLI ALKALINE PHOSPHATASE MUTANT (D153HD330N) MIMIC OF THE TRANSITION STATES WITH ALUMINIUM FLUORIDE
Authors: Le Du, M.H., Lamoure, C., Muller, B.H., Bulgakov, O.V., Lajeunesse, E., Menez, A., Boulain, J.C.
Release Date: 2002-03-13
Experiment: X-RAY DIFFRACTION with resolution of 2.30 Å

(24) **1KHK** E. COLI ALKALINE PHOSPHATASE MUTANT (D153HD330N)
Authors: Le Du, M.H., Lamoure, C., Muller, B.H., Bulgakov, O.V., Lajeunesse, E., Menez, A., Boulain, J.C.
Release Date: 2002-03-13
Experiment: X-RAY DIFFRACTION with resolution of 2.50 Å

(23) **1KHL** E. COLI ALKALINE PHOSPHATASE MUTANT (D153HD330N) COMPLEX WITH PHOSPHATE
Authors: Le Du, M.H., Lamoure, C., Muller, B.H., Bulgakov, O.V., Lajeunesse, E., Menez, A., Boulain, J.C.
Release Date: 2002-03-13
Experiment: X-RAY DIFFRACTION with resolution of 2.50 Å

(22) **1KHN** E. COLI ALKALINE PHOSPHATASE MUTANT (D153HD330N) ZINC FORM
Authors: Le Du, M.H., Lamoure, C., Muller, B. H., Bulgakov, O.V., Lajeunesse, E., Menez, A., Boulain, J.C.
Release Date: 2002-03-13
Experiment: X-RAY DIFFRACTION with resolution of 2.60 Å

(21) **1EW2** CRYSTAL STRUCTURE OF A HUMAN PHOSPHATASE
Authors: Le Du, M.H., Stigbrand, T., Taussig, M.J., Menez, A., Stura, E.A.
Release Date: 2001-04-04
Experiment: X-RAY DIFFRACTION with resolution of 1.82 Å

(20) **1ED8** STRUCTURE OF E. COLI ALKALINE PHOSPHATASE INHIBITED BY THE INORGANIC PHOSPHATE AT 1.75Å RESOLUTION
Authors: Stec, B., Holtz, K.M., Kantrowitz, E.R.
Release Date: 2000-09-20
Experiment: X-RAY DIFFRACTION with resolution of 1.75 Å

(19) **1B8J** ALKALINE PHOSPHATASE COMPLEXED WITH VANADATE

Authors:

Holtz, K.M., Stec, B., Kantrowitz, E.R.

Release Date: 1999-02-18

Experiment: X-RAY DIFFRACTION with resolution of 1.90 Å

(18) **1ELX** E. COLI ALKALINE PHOSPHATASE MUTANT (S102A)

Authors: Stec, B., Hehir, M., Brennan, C., Nolte, M., Kantrowitz, E.R.

Release Date: 1998-05-27

Experiment: X-RAY DIFFRACTION with resolution of 2.60 Å

(17) **1ELY** E. COLI ALKALINE PHOSPHATASE MUTANT (S102C)

Authors: Stec, B., Hehir, M., Brennan, C., Nolte, M., Kantrowitz, E.R.

Release Date: 1998-05-27

Experiment: X-RAY DIFFRACTION with resolution of 2.80 Å

(16) **1ELZ** E. COLI ALKALINE PHOSPHATASE MUTANT (S102G)

Authors: Stec, B., Hehir, M., Brennan, C., Nolte, M., Kantrowitz, E.R.

Release Date: 1998-05-27

Experiment: X-RAY DIFFRACTION with resolution of 2.80 Å

(15) **1HJK** ALKALINE PHOSPHATASE MUTANT H331Q

Authors: Murphy, J.E., Stec, B., Ma, L., Kantrowitz, E.R.

Release Date: 1997-10-15

Experiment: X-RAY DIFFRACTION with resolution of 2.30 Å

(14) **1URA** ALKALINE PHOSPHATASE (D51ZN)

Authors: Tibbitts, T.T., Murphy, J.E., Kantrowitz, E.R.

Release Date: 1996-07-11

Experiment:

(13) **1URB** ALKALINE PHOSPHATASE (N51MG)

Authors: Tibbitts, T.T., Murphy, J.E., Kantrowitz, E.R.

Release Date: 1996-07-11

Experiment: X-RAY DIFFRACTION with resolution of 2.14 Å

(12) **1HQA** ALKALINE PHOSPHATASE (H412Q)

Authors: Ma, L., Kantrowitz, E.R.

Release Date: 1996-03-08
Experiment: X-RAY DIFFRACTION with resolution of 2.25 Å

(11) **1ANI** ALKALINE PHOSPHATASE (D153H, K328H)
Authors: Murphy, J.E., Tibbitts, T.T., Kantrowitz, E.R.
Release Date: 1996-01-29
Experiment: X-RAY DIFFRACTION with resolution of 2.50 Å

(10) **1ANJ** ALKALINE PHOSPHATASE (K328H)
Authors: Murphy, J.E., Tibbitts, T.T., Kantrowitz, E.R.
Release Date: 1996-01-29
Experiment: X-RAY DIFFRACTION with resolution of 2.30 Å

(9) **2ANH** ALKALINE PHOSPHATASE (D153H)
Supercedes: 1ANH
Authors: Murphy, J.E., Tibbitts, T.T., Kantrowitz, E.R.
Release Date: 1996-01-29
Experiment: X-RAY DIFFRACTION with resolution of 2.40 Å

(8) **1AJA** THREE-DIMENSIONAL STRUCTURE OF THE D153G MUTANT OF E. COLI ALKALINE PHOSPHATASE: A MUTANT WITH WEAKER MAGNESIUM BINDING AND INCREASED CATALYTIC ACTIVITY
Authors: Dealwis, C.G., Chen, L., Abad-Zapatero, C.
Release Date: 1995-11-14
Experiment: X-RAY DIFFRACTION with resolution of 2.50 Å

(7) **1AJB** THREE-DIMENSIONAL STRUCTURE OF THE D153G MUTANT OF E. COLI ALKALINE PHOSPHATASE: A MUTANT WITH WEAKER MAGNESIUM BINDING AND INCREASED CATALYTIC ACTIVITY
Authors: Dealwis, C.G., Chen, L., Abad-Zapatero, C.
Release Date: 1995-11-14
Experiment: X-RAY DIFFRACTION with resolution of 2.50 Å

(6) **1AJC** THREE-DIMENSIONAL STRUCTURE OF THE D153G MUTANT OF E. COLI ALKALINE PHOSPHATASE: A MUTANT WITH WEAKER MAGNESIUM BINDING AND INCREASED CATALYTIC ACTIVITY
Authors: Dealwis, C.G., Chen, L., Abad-Zapatero, C.
Release Date: 1995-11-14
Experiment: X-RAY DIFFRACTION with resolution of 2.50 Å

(5) **1AJD** THREE-DIMENSIONAL STRUCTURE OF THE D153G MUTANT OF E. COLI ALKALINE PHOSPHATASE: A MUTANT WITH WEAKER MAGNESIUM BINDING AND INCREASED CATALYTIC ACTIVITY

Authors: Dealwis, C.G., Chen, L., Abad-Zapatero, C.

Release Date: 1995-11-14

Experiment: X-RAY DIFFRACTION with resolution of 2.50 Å

(4) **1ALI** ALKALINE PHOSPHATASE MUTANT (H412N)

Authors: Ma, L., Tibbitts, T.T., Kantrowitz, E.R.

Release Date: 1995-11-14

Experiment: X-RAY DIFFRACTION with resolution of 2.20 Å

(3) **1ALJ** ALKALINE PHOSPHATASE MUTANT (H412N)

Authors: Ma, L., Tibbitts, T.T., Kantrowitz, E.R.

Release Date: 1995-11-14

Experiment: X-RAY DIFFRACTION with resolution of 2.60 Å

(2) **1ALH** KINETICS AND CRYSTAL STRUCTURE OF A MUTANT E. COLI ALKALINE PHOSPHATASE (ASP-369-->ASN): A MECHANISM INVOLVING ONE ZINC PER ACTIVE SITE

Authors: Tibbitts, T.T., Xu, X., Kantrowitz, E.R.

Release Date: 1995-02-27

Experiment: X-RAY DIFFRACTION with resolution of 2.50 Å

(1) **1ALK** REACTION MECHANISM OF ALKALINE PHOSPHATASE BASED ON CRYSTAL STRUCTURES. TWO METAL ION CATALYSIS

Authors: Kim, E.E., Wyckoff, W.

Release Date: 1994-01-31

Experiment: X-RAY DIFFRACTION with resolution of 2.00 Å