

Crystal structures of AP as of 090626 (55).**1URA**

ALKALINE PHOSPHATASE (D51ZN)

Resolution: 2.04 Å

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

1URB

ALKALINE PHOSPHATASE (N51MG)

Resolution: 2.14 Å

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

1ANI

ALKALINE PHOSPHATASE (D153H, K328H)

Resolution: 2.50 Å

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

1ANJ

ALKALINE PHOSPHATASE (K328H)

Resolution: 2.30 Å

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

1ALKREACTION MECHANISM OF ALKALINE PHOSPHATASE BASED ON
CRYSTAL STRUCTURES. TWO METAL ION CATALYSIS

Resolution: 2.00 Å

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

1HQA

ALKALINE PHOSPHATASE (H412Q)

Resolution: 2.25 Å

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

1SHN

Crystal structure of shrimp alkaline phosphatase with phosphate bound

Resolution: 2.15 Å

Authors de Backer, M.M.E., McSweeney, S., Lindley, P.F.,
Hough, E.**2ANH**

ALKALINE PHOSPHATASE (D153H)

Resolution: 2.40 Å

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

1SHQ

Resolution: 2.00 Å

Crystal structure of shrimp alkaline phosphatase with magnesium in M3

Authors de Backer, M.M.E., McSweeney, S., Lindley, P.F.,
Hough, E.

1ZEF

Structure of alkaline phosphatase from human placenta in complex with its uncompetitive inhibitor L-Phe

Resolution: 1.90 Å

Authors Llinas, P., Stura, E.A., Menez, A., Kiss, Z., Stigbrand, T., Millan, J.L., Le Du, M.H.

1URA

ALKALINE PHOSPHATASE (D51ZN)

Resolution: 2.04 Å

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

1URB

ALKALINE PHOSPHATASE (N51MG)

Resolution: 2.14 Å

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

1ALJ

ALKALINE PHOSPHATASE MUTANT (H412N)

Resolution: 2.60 Å

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

1ANI

ALKALINE PHOSPHATASE (D153H, K328H)

Resolution: 2.50 Å

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

1ANJ

ALKALINE PHOSPHATASE (K328H)

Resolution: 2.30 Å

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

1URA

ALKALINE PHOSPHATASE (D51ZN)

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

1URB

ALKALINE PHOSPHATASE (N51MG)

Resolution: 2.14 Å

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

2ANH

ALKALINE PHOSPHATASE (D153H)

Resolution: 2.40 Å

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

1KH9

E. COLI ALKALINE PHOSPHATASE MUTANT (D153GD330N) COMPLEX WITH PHOSPHATE

Resolution: 2.50 Å

Authors Le Du, M.H., Lamoure, C., Muller, B. H., Bulgakov, O.V., Laje, E.

1KHK

E. COLI ALKALINE PHOSPHATASE MUTANT (D153HD330N)

Resolution: 2.50 Å

Authors Le Du, M.H., Lamoure, C., Muller, B.H., Bulgakov, O.V., Lajeunesse, E., Menez, A., Boulain, J.C.

1KHL

E. COLI ALKALINE PHOSPHATASE MUTANT (D153HD330N) COMPLEX WITH PHOSPHATE

Resolution: 2.50 Å

Authors Le Du, M.H., Lamoure, C., Muller, B.H., Bulgakov, O.V., Lajeunesse, E., Menez, A., Boulain, J.C.

1KHN

E. COLI ALKALINE PHOSPHATASE MUTANT (D153HD330N) ZINC FORM

Resolution: 2.60 Å

Authors Le Du, M.H., Lamoure, C., Muller, B. H., Bulgakov, O.V., Lajeunesse, E., Menez, A., Boulain, J.C.

1EW8

ALKALINE PHOSPHATASE (E.C. 3.1.3.1) COMPLEX WITH PHOSPHONOACETIC ACID

Resolution: 2.20 Å

Authors Holtz, K.M., Stec, B., Myers, J.K., Antonelli, S.M., Widlanski, T.S., Kantrowitz, E.R.

1EW9

Download PDB File View PDB File Structure Visualization with Jmol Viewer Query Result Details ALKALINE PHOSPHATASE (E.C. 3.1.3.1) COMPLEX WITH MERCAPTOMETHYL PHOSPHONATE

Resolution: 2.00 Å

Authors Holtz, K.M., Stec, B., Meyers, J.K., Antonelli, S.M., Widlanski, T.S., Kantrowitz, E.R.

1ELY

E. COLI ALKALINE PHOSPHATASE MUTANT (S102C)

Resolution: 2.80 Å

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

1HJK

ALKALINE PHOSPHATASE MUTANT H331Q

Resolution: 2.30 Å

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

1ZEB

X-ray structure of alkaline phosphatase from human placenta in complex with 5'-AMP

Resolution: 1.90 Å

Authors Llinas, P., Stura, E.A., Menez, A., Kiss, Z., Stigbrand, T., Millan, J.L., Le Du, M.H.

1B8J

ALKALINE PHOSPHATASE COMPLEXED WITH VANADATE

Resolution: 1.90 Å

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

1ED8

STRUCTURE OF E. COLI ALKALINE PHOSPHATASE INHIBITED BY THE INORGANIC PHOSPHATE AT 1.75 Å RESOLUTION

Resolution: 1.75 Å

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

1ED9

STRUCTURE OF E. COLI ALKALINE PHOSPHATASE WITHOUT THE INORGANIC PHOSPHATE AT 1.75 Å RESOLUTION

Resolution: 1.75 Å

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

1ALHDownload PDB File View PDB File Structure Visualization with Jmol
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.

3CMR

E. coli alkaline phosphatase mutant R166S in complex with phosphate

Resolution: 2.05 Å

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

1K7H

CRYSTAL STRUCTURE OF SHRIMP ALKALINE PHOSPHATASE

Resolution: 1.92 Å

Authors De Backer, M.E., Mc Sweeney, S., Rasmussen, H.B., Riise, B.W., Lindley, P., Hough, E.

1KHJ

E. COLI ALKALINE PHOSPHATASE MUTANT (D153HD330N) MIMIC OF THE TRANSITION STATES WITH ALUMINIUM FLUORIDE

Resolution: 2.30 Å

Authors Le Du, M.H., Lamoure, C., Muller, B.H., Bulgakov, O.V., Lajeunesse, E., Menez, A., Boulain, J.C.

2IUC

STRUCTURE OF ALKALINE PHOSPHATASE FROM THE ANTARCTIC BACTERIUM TAB5

Resolution: 1.95 Å

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

1ELX

E. COLI ALKALINE PHOSPHATASE MUTANT (S102A)

Resolution: 2.60 Å

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

1ELZ

E. COLI ALKALINE PHOSPHATASE MUTANT (S102G)

Resolution: 2.80 Å

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

2GA3

Structure of S102T E. coli Alkaline Phosphatase-phosphate intermediate at 2.20 Å resolution

Resolution: 2.20 Å

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

3DPC

Structure of E.coli Alkaline Phosphatase Mutant in Complex with a Phosphorylated Peptide

Resolution: 2.30 Å

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

1Y7A

Structure of D153H/K328W E. coli alkaline phosphatase in presence of cobalt at 1.77 Å resolution

Resolution: 1.77 Å

Authors Wang, J., Stieglitz, K., Kantrowitz, E.R.

3BDF

Crystal structure of metal-free E. coli alkaline phosphatase (T155V)

Resolution: 1.40 Å

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

3BDH

Crystal structure of zinc-deficient wild-type E. coli alkaline phosphatase

Resolution: 1.85 Å

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

3BDG

Crystal structure of wild-type/T155V mixed dimer of E. coli alkaline phosphatase

Resolution: 1.40 Å

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

2VQR

CRYSTAL STRUCTURE OF A PHOSPHONATE MONOESTER HYDROLASE FROM RHIZOBIUM LEGUMINOSARUM: A NEW MEMBER OF THE ALKALINE PHOSPHATASE SUPERFAMILY

Resolution: 1.42 Å

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

1Y6V

Structure of E. coli Alkaline Phosphatase in presence of cobalt at 1.60 Å resolution

Authors Wang, J., Stieglitz, K., Kantrowitz, E.R.

2G9Y

Structure of S102T E. coli alkaline phosphatase in presence of phosphate at 2.00 Å resolution

Resolution: 2.00 Å

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

3E2D

The 1.4 Å crystal structure of the large and cold-active *Vibrio* sp. alkaline phosphatase

Resolution: 1.40 Å

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

1EW2

CRYSTAL STRUCTURE OF A HUMAN PHOSPHATASE

Resolution: 1.82 Å

Authors Le Du, M.H., Stigbrand, T., Taussig, M.J., Menez, A., Stura, E.A.

2GLQ

X-ray structure of human alkaline phosphatase in complex with strontium

Resolution: 1.60 Å

Authors Llinas, P., Masella, M., Stigbrand, T., Menez, A., Stura, E.A., Le Du, M.H.

1ZED

Alkaline phosphatase from human placenta in complex with p-nitrophenyl-phosphonate

Resolution: 1.57 Å

Authors Llinas, P., Stura, E.A., Menez, A., Kiss, Z., Stigbrand, T., Millan, J.L., Le Du, M.H.

2GSU

Structure of Xac Nucleotide Pyrophosphatase/Phosphodiesterase in Complex with AMP

Resolution: 2.00 Å

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

2GSN

Structure of Xac Nucleotide Pyrophosphatase/Phosphodiesterase

Resolution: 1.75 Å
Authors Zalatan, J.G., Fenn, T.D., Brunger, A.T., Herschlag, D.

2GSO

Structure of Xac Nucleotide Pyrophosphatase/Phosphodiesterase in Complex with Vanadate

Resolution: 1.30 Å

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

2RH6

Structure of Xac NPP for evaluation of refinement methodology

Resolution: 1.45 Å

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

3DYC

Structure of E322Y Alkaline Phosphatase in Complex with Inorganic Phosphate

Resolution: 2.30 Å

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