

Kynurenine--oxoglutarate transaminase 1 (KYAT1) Recombinant Protein | KYAT1 recombinant protein

Recombinant Human Kynurenine--oxoglutarate transaminase 1 (KYAT1)

CATALOG # AAA117594	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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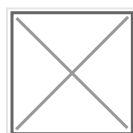
PRODUCT SYNONYMS

Kynurenine--oxoglutarate transaminase 1 (KYAT1); Recombinant Human Kynurenine--oxoglutarate transaminase 1 (KYAT1); Cysteine-S-conjugate beta-lyase (EC:4.4.1.13); Glutamine transaminase K; GTK; Glutamine-phenylpyruvate transaminase (EC:2.6.1.64); Kynurenine aminotransferase I; KATI; Kynurenine-oxoglutarate transaminase I; KYAT1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-372. Full Length of Isoform 2
Sequence	MAKQLQARRL DGIDYNPWVE FVKLASEHDV VNLGQGFPDF PPPDFAVEAF QHAVSGDFML NQYTKTFVII IEPFFDCYEP MTMMAGGRP VVSLKPGPIQ NGELGSSSNW QLDPMELAGK FTSRTKALVL NTPNNPLGKV FSREELELVA SLCQQHDVVC ITDEVYQWMV YDGHQHISIA SLPGMWERTL TIGSAGKTFS ATGWKVGWVL GPDHIMKHLR TVHQNSVFHC PTQSQAABAE SFEREQLLFR QPSSYFVQFP QAMQRCRDHM IRSLSVGLK PIIPQGSYFL ITDISDFKRK MPDLPGAVDE PYDRRFVKWM IKNKGLVAIP VSIFYSVPHQ KHFDHYIRFC FVKDEATLQA MDEKLRKWKV EL
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for KYAT1 recombinant protein	Catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form kynurenic acid (KA). Metabolizes the cysteine conjugates of certain halogenated alkenes and alkanes to form reactive metabolites. Catalyzes the beta-elimination of S-conjugates and Se-conjugates of L-(seleno)cysteine, resulting in the cleavage of the C-S or C-Se bond.
Product Categories/Family for KYAT1 recombinant protein	Metabolism

References	Molecular cloning and expression of a cDNA for human kidney cysteine conjugate beta-lyase.Perry S., Harries H., Scholfield C., Lock E., King L., Gibson G., Goldfarb P.FEBS Lett. 360:277-280(1995) DNA sequence and analysis of human chromosome 9.Humphray S.J., Oliver K., Hunt A.R., Plumb R.W., Loveland J.E., Howe K.L., Andrews T.D., Searle S., Hunt S.E., Scott C.E., Jones M.C., Ainscough R., Almeida J.P., Ambrose K.D., Ashwell R.I.S., Babbage A.K., Babbage S., Bagguley C.L., Bailey J., Banerjee R., Barker D.J., Barlow K.F., Bates K., Beasley H., Beasley O., Bird C.P., Bray-Allen S., Brown A.J., Brown J.Y., Burford D., Burrill W., Burton J., Carder C., Carter N.P., Chapman J.C., Chen Y., Clarke G., Clark S.Y., Clee C.M., Clegg S., Collier R.E., Corby N., Crosier M., Cummings A.T., Davies J., Dhami P., Dunn M., Dutta I., Dyer L.W., Earthrowl M.E., Faulkner L., Fleming C.J., Frankish A., Frankland J.A., French L., Fricker D.G., Garner P., Garnett J., Ghori J., Gilbert J.G.R., Glison C., Grafham D.V., Gribble S., Griffiths C., Griffiths-Jones S., Grocock R., Guy J., Hall R.E., Hammond S., Harley J.L., Harrison E.S.I., Hart E.A., Heath P.D., Henderson C.D., Hopkins B.L., Howard P.J., Howden P.J., Huckle E., Johnson C., Johnson D., Joy A.A., Kay M., Keenan S., Kershaw J.K., Kimberley A.M., King A., Knights A., Laird G.K., Langford C., Lawlor S., Leongamornlert D.A., Leversha M., Lloyd C., Lloyd D.M., Lovell J., Martin S., Mashreghi-Mohammadi M., Matthews L., McLaren S., McLay K.E., McMurray A., Milne S., Nickerson T., Nisbett J., Nordsiek G., Pearce A.V., Peck A.I., Porter K.M., Pandian R., Pelan S., Phillimore B., Povey S., Ramsey Y., Rand V., Scharfe M., Sehra H.K., Shownkeen R., Sims S.K., Skuce C.D., Smith M., Steward C.A., Swarbreck D., Sycamore N., Tester J., Thorpe A., Tracey A., Tromans A., Thomas D.W., Wall M., Wallis J.M., West A.P., Whitehead S.L., Willey D.L., Williams S.A., Wilming L., Wray P.W., Young L., Ashurst J.L., Coulson A., Blocker H., Durbin R.M., Sulston J.E., Hubbard T., Jackson M.J., Bentley D.R., Beck S., Rogers J., Dunham I.Nature 429:369-374(2004) Crystal structure of human kynurenine aminotransferase I.Rossi F., Han Q., Li J., Li J., Rizzi M.J. Biol. Chem. 279:50214-50220(2004) Structural insight into the inhibition of human kynurenine aminotransferase I/glutamine transaminase K.Han Q., Robinson H., Cai T., Tagle D.A., Li J.J. Med. Chem. 52:2786-2793(2009)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	169881279
NCBI GeneID	883
NCBI Accession #	NP_001116143.1
NCBI GenBank Nucleotide #	NM_001122671.1
UniProt Accession #	Q16773; Q5T275; Q8N191
Molecular Weight	58.6 kDa
NCBI Official Full Name	kynurenine--oxoglutarate transaminase 1 isoform a
NCBI Official Synonym Full Names	cysteine conjugate-beta lyase, cytoplasmic
NCBI Official Symbol	CCBL1
NCBI Official Synonym Symbols	GTK; KAT1; KATI
NCBI Protein Information	kynurenine--oxoglutarate transaminase 1
UniProt Protein Name	Kynurenine--oxoglutarate transaminase 1
UniProt Gene Name	CCBL1
UniProt Synonym Gene Names	GTK; KATI
UniProt Entry Name	KAT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.