

Recombinant Human KYAT1 protein, His & T7-tagged

Cat. No. KYAT1-1042H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human KYAT1 aa. (Met1~Leu422 (Accession # Q16773) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Leu422
Description	This gene encodes a cytosolic enzyme that is responsible for the metabolism of cysteine conjugates of certain halogenated alkenes and alkanes. This metabolism can form reactive metabolites leading to nephrotoxicity and neurotoxicity. Increased levels of this enzyme have been linked to schizophrenia. Multiple transcript variants that encode different isoforms have been identified for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 51.6kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.0.

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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

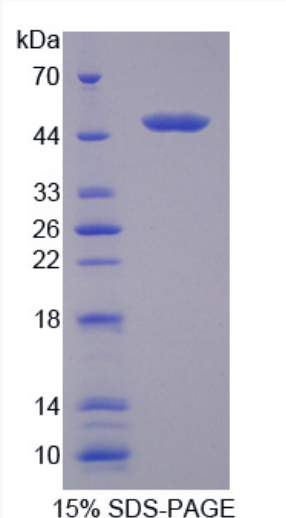
GENE INFORMATION

Gene Name	KYAT1 kynurenine aminotransferase 1 [Homo sapiens (human)]
Official Symbol	KYAT1
Synonyms	KYAT1; kynurenine aminotransferase 1; GTK; KAT1; KATI; CCBL1; kynurenine--oxoglutarate transaminase 1; beta-lysase, kidney; cysteine conjugate beta lyase 1; cysteine conjugate-beta lyase, cytoplasmic; cysteine conjugate-beta lyase; cytoplasmic (glutamine transaminase K, kynurenine aminotransferase); cysteine-S-conjugate beta-lyase; glutamine transaminase K; glutamine--phenylpyruvate transaminase; glutamine-phenylpyruvate aminotransferase; kynurenine aminotransferase; kynurenine aminotransferase I; kynurenine--oxoglutarate transaminase I

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Gene ID	883
mRNA Refseq	NM_001122671.1
Protein Refseq	NP_001116143.1
UniProt ID	Q16773
SDS-PAGE	 15% SDS-PAGE