Active Recombinant Full Length Human KYAT1 Protein, C-Flag-tagged

Cat. No. KYAT1-366HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human KYAT1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	The specific activity of KATI was determined by measuring the product Kynurenic acid formation from a conversion of Kynurenine. The reaction was carried out at 37? for 15min in the buffer containing 100 mM PBS, pH7.4, 2 mM a-oxoglutarate, 40μM PLP (pyridoxal 5'-phosphate), and 0.5 mM kynurenine as the substrate.
Molecular Mass	47.7 kDa
AA Sequence	MAKQLQARRLDGIDYNPWVEFVKLASEHDVVNLGQGFPDFPPPDFAVEAFQHAVS GDFMLNQYTKTFGYP PLTKILASFFGELLGQEIDPLRNVLVTVGGYGALFTAFQALV

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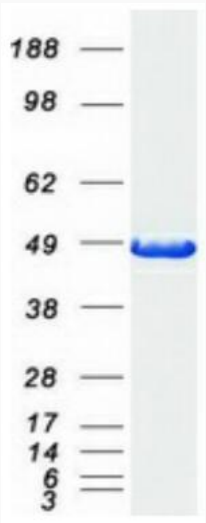
	DEGDEVIIIEPFFDCYEPMTMMAGGRPV FVSLKPGPIQNGELGSSSNWQLDPMELA GKFTSRTKALVLNTPNNPLGKVFSREELELVASLCQQHDVVC ITDEVYQWMVYDGH QHISIASLPGMWERTLTIGSAGKTFSATGWKVGWVLGPDHIMKHLRTVHQNSVFHC PTQSQAAVAESFEREQLLFRQPSSYFVQFPQAMQRCRDHMIRSLQSVGLKPIIPQG SYFLITDISDFKRK MPDLPGAVDEPYDRRFVKWMIKNKGLVAIPVSIFYSVPHQKHFD HYIRFCFVKDEATLQAMDEKLRKWKV ELTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	KYAT1 kynurenine aminotransferase 1 [Homo sapiens (human)]
Official Symbol	KYAT1
Synonyms	GTK; KAT1; KATI; CCBL1
Gene ID	883

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mRNA Refseq	NM_004059.5
Protein Refseq	NP_004050.3
MIM	600547
UniProt ID	Q16773



Coomassie blue staining of purified KYAT1 protein.

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