

Recombinant Human KYAT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. KYAT1-3303H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CCBL1 MS Standard C13 and N15-labeled recombinant protein (NP_004050) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	47.7 kDa
AA Sequence	MAKQLQARRLDGIDYNPWVEFVKLASEHDVVNLGQGFPDFPPPDFAVEAFQHAVS GDFMLNQYTKTFGYPLTKILASFFGELLGQEIDPLRNVLVTVGGYGALFTAFQALVD EGDEVIIIEPFFDCYEPMTMMAGGRP VFVSLKPGPIQNGELGSSSNWQLDPMELAG KFTSRTKALVLNTPNPNPLGKVFSREELELVASLCQQHDVVCITDEVYQWMVYDGHQ HISIASLPGMWERTLTIGSAGKTF SATGWKVGWVLGPDHIMKHLRTVHQNSVFHCP TQSQA AVAESFEREQLLFRQPSSYFVQFPQAMQRCRDHMIRSLQSVGLKPIIPQGS YFLITDISDFKRKMPDLP GAVDEPYDRRFVKWMIKNKGLVAIPVSIFYSVPHQKHFDH YIRFCFVKDEATLQAMDEKLRKWKVELTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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, kyneurenine aminotransferase); cysteine-S-conjugate beta-lyase; glutamine transaminase K; glutamine--phenylpyruvate transaminase; glutamine-phenylpyruvate aminotransferase; kyneurenine aminotransferase; kynurenine aminotransferase I; kynurenine--oxoglutarate transaminase I; EC 2.6.1.64; EC 2.6.1.7; EC 4.4.1.13
Gene ID	883
mRNA Refseq	NM_004059
Protein Refseq	NP_004050

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MIM	600547
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UniProt ID	Q16773
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