Recombinant Human CCBL1, His-tagged

Cat. No. CCBL1-82H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CCBL1 was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-422 aa
Description	CCBL1 also known as Kynurenine--oxoglutrate transaminase1 isoform a. CCBL1 catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form kynurenic acid (KA) and it metabolizes the cysteine conjugates of certain halogenated alkenes and alkanes to form reactive metabolites. CCBL1 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.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	50.3kDa (445aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAKQLQA RRLDGIDYNP WVEFVKLASE HDVVNLGQGF PDFPPPDFAV EAFQHAVSGD FMLNQYTKTF GYPPLTKILA SFFGELLGQE IDPLRNVLVT VGGYGALFTA FQALVDEGDE VIIIEPFFDC YEPMTMMAGG RPVFVSLKPG PIQNGELGSS SNWQLDPMEL AGKFTSRTKA LVLNTPNNPL GKVFSREELE LVASLCQQHD VVCITDEVYQ WMVYDGHQHI

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	SIASLPGMWE RTLTIGSAGK TFSATGWKVG WVLGPDHIMK HLRTVHQNSV FHCPTQSQAA VAESFEREQL LFRQPSSYFV QFPQAMQRCR DHMIRSLQSV GLKPIIPQGS YFLITDISDF KRKMPDLPGA VDEPYDRRFV KWMIKNKGLV AIPVSIFYSV PHQKHFDHYI RFCFVKDEAT LQAMDEKLRK WKVEL
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	CCBL1 cysteine conjugate-beta lyase, cytoplasmic [Homo sapiens]
Official Symbol	CCBL1
Synonyms	CCBL1; cysteine conjugate-beta lyase, cytoplasmic; cysteine conjugate beta lyase; cytoplasmic (glutamine transaminase K, kyneurenine aminotransferase); kynurenine--oxoglutarate transaminase 1; glutamine transaminase K; GTK; KATI; kyneurenine aminotransferase; beta-lysase, kidney; kynurenine aminotransferase I; cysteine-S-conjugate beta-lyase; glutamine--phenylpyruvate transaminase; kynurenine--oxoglutarate transaminase I; glutamine-phenylpyruvate aminotransferase; cysteine conjugate-beta lyase; cytoplasmic (glutamine transaminase K, kyneurenine aminotransferase); KAT1; FLJ95217; MGC29624;
Gene ID	883
mRNA Refseq	NM_001122671

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Protein Refseq	NP_001116143
MIM	600547
UniProt ID	Q16773
Chromosome Location	9q34.11
Pathway	Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Phenylalanine and tyrosine catabolism, organism-specific biosystem; Selenocompound metabolism, organism-specific biosystem; Selenocompound metabolism, conserved biosystem;
Function	1-aminocyclopropane-1-carboxylate synthase activity; L-glutamine:pyruvate aminotransferase activity; L-phenylalanine:pyruvate aminotransferase activity; cysteine-S-conjugate beta-lyase activity; glutamine-phenylpyruvate transaminase activity; kynurenine-oxoglutarate transaminase activity; kynurenine-oxoglutarate transaminase activity; lyase activity; protein homodimerization activity; pyridoxal phosphate binding; transaminase activity; transferase activity, transferring nitrogenous groups;

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