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**Product Data Sheet**


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Product Name: CCBL1 Human

Cat. No.: GP21470

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cysteine Conjugate-Beta Lyase; Cytoplasmic; Glutamine Transaminase K; Cysteine Conjugate-Beta Lyase; Cytoplasmic (Glutamine Transaminase K; Kynurenine Aminotransferase); Kynurenine--Oxoglutarate Transaminase I; Glutamine--Phenylpyruvate Transaminase; Cysteine-S-Conjugate Beta-Lyase; Kynurenine Aminotransferase I; Kynurenine Aminotransferase; KATI; GTK; Glutamine-Phenylpyruvate Aminotransferase; Kynurenine--Oxoglutarate Transaminase 1; Beta-Lysase; Kidney; EC 4.4.1.13; EC 2.6.1.64; EC 2.6.1.7; KATI; Kynurenine--oxoglutarate transaminase 1.		
Amino Acid Sequence	<p>MGSSHHHHHSSGLVPRGSH MGSMKQLQARRLDGIDYNP WVEFVKLASE            HDVVNLGQGF PDFPPDFAV EAFQHAVSGD FMLNQYTKTF            GYPPLTKILASFFGELLGQE IDPLRNVLVT VGGYGALFTA FQALVDEGDE            VIIIIEPFDC YEPMTMMAGG RPFVSLKPGPIQNGELGSS SNWQLDPMEL            AGKFTSRTKA LVLNTPNNPL GKVFSREELE LVASLCQQHD            VVCITDEVYQWMVYDGHQHI SIASLPGMWE RTLTIGSAGK TFSATGWKVG            WVLGPDHIMK HLRTVHQNSV FHCPTQSQA AAVAESFEREQ LFRQPSSYFV            QFPQAMQRCR DHMIRSLQSV GLKPIIPQGS YFLITDISDF            KRKMPDLPGAVDEPYDRRFV KWMIKNKGLV AIPVSIFYSV PHQKHFDHYI            RFCFVKDEAT LQAMDEKLRK WKVEL.</p>		
Formulation	CCBL1 protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.		

**Introduction**

Cysteine Conjugate-Beta Lyase Cytoplasmic also known as CCBL1 is a member of the class-I pyridoxal-phosphate-dependent aminotransferase family. CCBL1 catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form

**Caution: Product has not been fully validated for medical applications. For research use only.**

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kynurenic acid (KA) it also metabolizes the cysteine conjugates of certain halogenated alkenes and alkanes to form reactive metabolites. Furthermore, 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CCBL1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 445 amino acids (1-422 a.a) and having a molecular mass of 50.3kDa. CCBL1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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