

## CCBL2 Protein, Human, Recombinant (His &amp; SUMO)

## General Information

Synonyms:	KAT3;Kynurenine--oxoglutarate transaminase III;Kynurenine aminotransferase III (KATIII); Kynurenine--glyoxylate transaminase;CCBL2;KYAT3;Kynurenine--oxoglutarate transaminase 3;Kynurenine aminotransferase 3;Cysteine-S-conjugate beta-lyase 2
Protein Construction:	1-454 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q6YP21
Molecular Weight:	67.4 kDa (predicted)
AA Sequence:	MFLAQRSLCSLSGRAKFLKTISSSKILGFSTSAKMSLKFTNAKRIEGLDSNVWIEFTKLAADPSVNVNLGQGFPDI SPPTYVKEELSKIAAIDSLNQYTRGFGHPSLVKALSYLEKLYQKQIDSNKEILVTVGAYGSLFNTIQALIDEGDE VILIVPFYDCYEPMVRMAGATPVFIPLRSKPVYGKRWSSSDWTLDPQELESKFNSKTKAILNTPHNPLGKVYN REELQVIADLCIKYDTLCISDEVYEWLVYSGNKHLKIATFPGMWERTITIGSAGKTFSVTGWKLGSIGNHLIK HLQTVQQNTIYTCATPLQEALAQAFWIDIKRMDDPECYFNSLPKELEVKRDRMVRLLLESVGLKPIVPDGGYFII ADVSLLDPLSDMKNNPEYDYKFVKWMTKHKLSAIPVSAFCNSETKSQFEKVFVRCFIKKDSTLDAAEEIKA WSVQKS

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form kynurenic acid (KA), an intermediate in the tryptophan catabolic pathway which is also a broad spectrum antagonist of the three ionotropic excitatory amino acid receptors among others. May catalyze 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. Has transaminase activity towards L-kynurenine, tryptophan, phenylalanine, serine, cysteine, methionine, histidine, glutamine and asparagine with glyoxylate as an amino group acceptor (in vitro). Has lower activity with 2-oxoglutarate as amino group acceptor (in vitro).

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