

Recombinant human Cysteine Conjugate beta -Lyase/CCBL1 protein

Catalog Number: ATGP3102

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-422aa

UniProt No.

Q16773

NCBI Accession No.

NP_004050

Alternative Names

Kynurenine-oxoglutarate transaminase1 isoform a, GTK, KAT1, KATI

PRODUCT SPECIFICATION

Molecular Weight

50.3 kDa (445aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CCBL1 also known as Kynurenine--oxoglutarate transaminase1 isoform a. CCBL1 catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenone 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. Recombinant human CCBL1 was expressed in E. coli and purified by using conventional chromatography techniques

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Amino acid Sequence

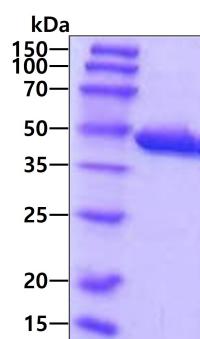
<MGSSHHHHH SSGLVPRGSH MGS>MAKQLQA RRLDGIDYNP WVEFVKLASE HDVVNLGQGF PDFPPPDFAV EAFQHAVSGD FMLNQYTKTF GYPPLTKILA SFFGELLGQE IDPLRNVLVT VGGYGALFTA FQALVDEGDE VIIIEPFFDC YEPMTMMAGG RPVFVSLKPG PIQNNGELGSS SNWQLDPMEL AGKFTSRTKA LVLNTPNNPL GKVFSREELE LVASLCQQHD VVCITDEVYQ WMVYDGHQHI SIASLPGMWE RTLTIKSAGK TFSATGWKVG WVLGPDHIMK HLRTVHQNSV FHCPTQSQAA VAESFEREQL LFRQPSSYFV QFPQAMQRCCR DHMIRSLQSV GLKPIIPQGS YFLITDISDF KRKMPDLPGA VDEPYDRRFV KWMIKNKGLV AIPVSIFYSV PHQKHFDHYI RFCFKDEAT LQAMDEKLK WKVEL

General References

- Han Q., et al.(2009) J. Med. Chem. 52:2786-2793.
Rossi F., et al. (2004) J. Biol. Chem. 279:50214-50220.

DATA

SDS-PAGE



Bug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.