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-oxoglutrate 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--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. Recombinant human CCBL1 was expressed in E. coli and purified by using conventional chromatography techniques

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Amino acid Sequence

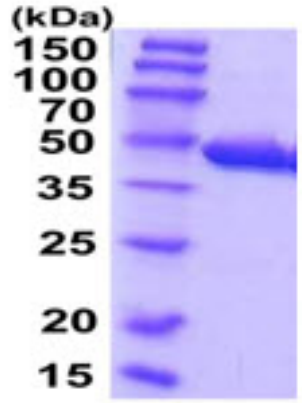
MGSSHHHHHH SSGLVPRGSH MGSMAKQLQA RRLDGIDYNP WVEFVKLASE HDVVNLGQGF PDFPPPDFAV EAFQHAVSGD FMLNQYTKTF GYPPLTKILA SFFGELLGQE IDPLRNVLVT VGGYGALFTA FQALVDEGDE VIIIEPFFDC YEPMTMMAGG RPVFVSLKPG PIQNGELGSS SNWQLDPMEL AGKFTSRTKA LVLNTPNNPL GKVFSREELE LVASLCQQHD VVCITDEVYQ WMVYDGHQHI SIASLPGMWE RTLTIGSAGK TFSATGWKVG WVLGPDHIMK HLRTVHQNSV FHCPTQSQAA VAESFEREQL LFRQPSSYFV QFPQAMQRCR DHMIRSLQSV GLKPIIPQGS YFLITDISDF KRKMPDLPGA VDEPYDRRFV KWMIKNKGLV AIPVSIFYSV PHQKHFDHYI RFCFVKDEAT LQAMDEKLRK 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



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.