

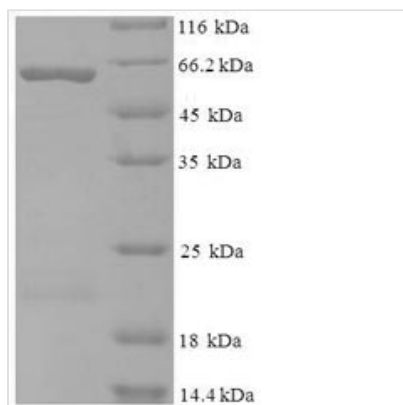


Recombinant Human Kynurenine--oxoglutarate transaminase 1 (KYAT1)

Product Code	CSB-EP613699HU
Relevance	Catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form kynurenic acid (KA). Metabolizes the cysteine conjugates of certain halogenated alkenes and alkanes to form reactive metabolites. 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.
Abbreviation	Recombinant Human KYAT1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q16773
Alias	Cysteine-S-conjugate beta-lyase (EC:4.4.1.13)Glutamine transaminase K ;GTKGlutamine--phenylpyruvate transaminase (EC:2.6.1.64)Kynurenine aminotransferase I ;KATIKynurenine--oxoglutarate transaminase I
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAKQLQARRLDGIDYNPWVEFVKLASEHDVVNLGQGFPDFPPPDFAVEAFQH AVSGDFMLNQYTKTFVIIIEPFFDCYEPMTMMAGGRPVFVSLKPGPIQNGELGS SSNWQLDPMELAGKFTSRTKALVLNTPNPLGKVFSREELELVASLCQQQHDV VCITDEVYQWMVYDGHQHISIASLPGMWERTLTIGSAGKTFSATGWKVGWVL GPDHIMKHLRTVHQNSVFHCPTQSQAAVAESFEREQLLFRQPSSYFVQFPQA MQRCDHMIIRSLQSVGLKPIIPQGSYFLITDISDFKRKMPDLPGAVDEPYDRRF VKWMIKNKGLVAIPVSIFYSVPHQKHFDHYIRFCFVKDEATLQAMDEKLRKWK VEL
Research Area	Metabolism
Source	E.coli
Target Names	KYAT1
Expression Region	1-372aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	58.6kDa
Protein Length	Full Length of Isoform 2



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Expressing the recombinant Human KYAT1 protein generally involves constructing a plasmid encoding the Human KYAT1 protein (1-372aa). This plasmid is introduced into e.coli cells, followed by the selection and culturing of positive e.coli cells, induction of protein expression, and subsequent cell lysis. The protein is fused with a N-terminal 6xHis-SUMO tag. The recombinant Human KYAT1 protein is purified through affinity purification, and SDS-PAGE analysis is conducted to confirm the presence of the protein and determine its purity. This protein exhibits a purity exceeding 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.