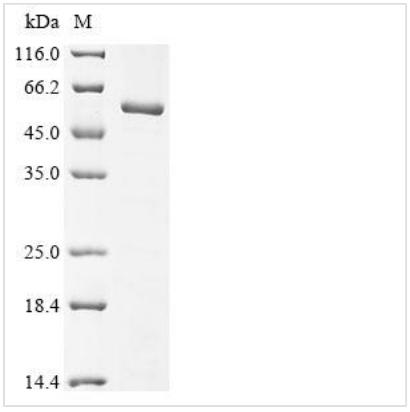
Recombinant Human Kynureninase (KYNU)

Product Code	CSB-EP621970HU(F2)
Abbreviation	Recombinant Human KYNU 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.	Q16719
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Human Kynureninase(KYNU)
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRECFYIPKIQDL PPVDLSLVNKDENAIYFLGNSLGLQPKMVKTYLEEELDKWAKIAAYGHEVGKR PWITGDESIVGLMKDIVGANEKEIALMNALTVNLHLLMLSFFKPTPKRYKILLEA KAFPSDHYAIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEKEGDSIAVIL FSGVHFYTGQHFNIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFAC WCSYKYLNAGAGGIAGAFIHEKHAHTIKPARSEFFN
Research Area	Signal Transduction
Source	E.coli
Target Names	KYNU
Expression Region	1-307aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	61.6 kDa
Protein Length	Full Length of Isoform 2
Image	



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

Description

The expression region of this recombinant Human KYNU covers amino acids 1-307. This KYNU protein is expected to have a theoretical molecular weight of 61.6 kDa. This protein is generated in a e.coli-based system. Fusion of the N-terminal GST tag into the KYNU encoding gene fragment was conducted, allowing for easier detection and purification of the KYNU protein in subsequent stages.

human kynureninase (KYNU) is a crucial enzyme in the tryptophan catabolic pathway, catalyzing the conversion of kynurenine to anthranilic acid. KYNU plays a pivotal role in regulating the levels of neuroactive kynurenine metabolites, influencing neurotransmission and immune responses. In neurobiology, KYNU is implicated in neurodegenerative diseases and psychiatric disorders due to its involvement in kynurenine metabolism. In immunology research, KYNU modulates immune tolerance and inflammation. Furthermore, KYNU's role in cancer metabolism underscores its significance in oncology. Investigating KYNU provides insights into tryptophan metabolism, offering potential applications in neurology, immunology, and cancer research, with implications for therapeutic strategies targeting these pathways.

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

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