

KYNU/Kynureninase Protein, Human (sf9, His)

Cat. No.:	HY-P75903
Synonyms:	Kynureninase; L-kynurenine hydrolase; KYNU; EC:3.7.1.3
Species:	Human
Source:	Sf9 insect cells
Accession:	Q16719 (M1-N465)
Gene ID:	8942
Molecular Weight:	Approximately 47 kDa

PROPERTIES

AA Sequence	MEPSSLELPA DTVQRIAAEL KCHPTDERVA LHLDEEDKLR HFRECF
Biological Activity	Measured by its ability to oxidize 3-hydroxykynurenine. The specific activity is > 200 pmoles/min/μg.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.0, 25% gly.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year from date of receipt. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	Kynureninase (KYNU) is a pivotal enzyme that catalyzes the cleavage of L-kynurenine (L-Kyn) and L-3-hydroxykynurenine (L-3OHKyn) into anthranilic acid (AA) and 3-hydroxyanthranilic acid (3-OHAA), respectively. Notably, KYNU exhibits a preference for the L-3-hydroxy form in its enzymatic activity. In addition to its role in the kynurenine pathway, KYNU displays cysteine-conjugate-beta-lyase activity, adding another layer to its functional versatility. This enzymatic versatility positions KYNU as a key player in the metabolism of tryptophan-derived compounds, highlighting its significance in regulating the levels of bioactive molecules such as anthranilic acid and 3-hydroxyanthranilic acid, and emphasizing its broader involvement in cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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