Recombinant Human Kynureninase, His-tagged

Cat. No. KYNU-1349H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human KLK3 (P07288) (Met 1 - Pro 261) was fused with a polyhistidine tag at the C-terminus.The recombinant human KYNU consists of 475 amino acids and predicts a molecular mass of 53.7 kDa. The apparent molecular mass of rhKYNU is approximately 47 kDa in SDS-PAGE under reducing conditions.
Species	Human
Source	Insect Cells
ProteinLength	475 aa
Description	KYNU is a pyridoxal-5-phosphate (PLP)-dependent enzyme that catalyzes the hydrolytic cleavage of l-kynurenine to anthranilic acid and l-alanine. Sequence alignment with other PLP-dependent enzymes indicated that kynureninase is in subgroup IVa of the aminotransferases, along with nifS, CsdB, and serine-pyruvate aminotransferase, which suggests that kynureninase has an aminotransferase fold. KYNU is one of the enzymes involved in the biosynthesis of NAD cofactors from tryptophan through the kynurenine pathway.
Predicted N Terminal	Met
Form	Lyophilized from 0.2μm filtered solution of 20mM Tris, 500mM NaCl, pH8.0, 25% gly. Normally 5 %-8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.

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Molecular Mass	53.7 kDa
Endotoxin	1.0 eu/μg of the protein as determined by the lal
Purity	>92 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 °C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	KYNU kynureninase [Homo sapiens]
Official Symbol	KYNU
Synonyms	KYNU; kynureninase; kynureninase (L kynurenine hydrolase); L kynurenine hydrolase; kynureninase (L-kynurenine hydrolase);
Gene ID	8942
mRNA Refseq	NM_001032998
Protein Refseq	NP_001028170
MIM	605197
UniProt ID	Q16719
Chromosome Location	2q22.2

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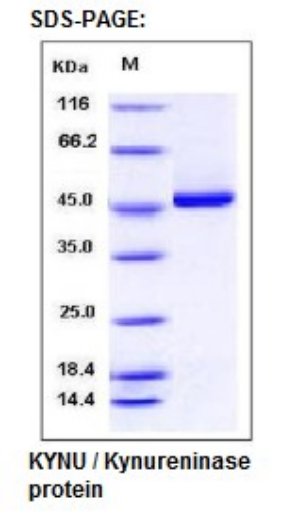
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; NAD biosynthesis II (from tryptophan), organism-specific biosystem; Selenium Pathway, organism-specific biosystem; Tryptophan catabolism, organism-specific biosystem; Tryptophan metabolism, organism-specific biosystem;
Function	hydrolase activity; kynureninase activity; kynureninase activity; kynureninase activity; kynureninase activity; protein homodimerization activity; pyridoxal phosphate binding;
KYNU / Kynureninase protein	

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