

Recombinant Human KMO Protein (1-486 aa), His-tagged

Cat. No. KMO-1434H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KMO Protein (1-486 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Metabolism. Protein Description: Full Length.
Species	Human
Source	Yeast
ProteinLength	1-486 aa
Description	Catalyzes the hydroxylation of L-kynurenine (L-Kyn) to form 3-hydroxy-L-kynurenine (L-3OHKyn). Required for synthesis of quinolinic acid, a neurotoxic NMDA receptor antagonist and potential endogenous inhibitor of NMDA receptor signaling in axonal targeting, synaptogenesis and apoptosis during brain development. Quinolinic acid may also affect NMDA receptor signaling in pancreatic beta cells, osteoblasts, myocardial cells, and the gastrointestinal tract.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	57.8 kDa
AA Sequence	MDSSVIQRKKVAVIGGGGLVGS LQACFLAKRNFQIDVYEAREDTRVATFTRGRSINLAL SHRGRQALKAVGLEDQIVSQGIPMRARMIHSLSGKKS AIPYGT KSQYILSVSRENLNK DLLTAAEKYPNVKMHFNHRL LKCNPEEGMITVLGSDKVPKDVTC DLIVGCDGAYSTV RSHLMKKPRFDYSQQYIPHG YMELTIPPKNGDYAMEPNYLHIWPRNTFMMIALPNM

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NKSFTCTLFMPFEEFEKLLTSNDVVDFFQKYFPDAIPLIGEKLLVQDFFLLPAQPMISV
 KCSSFHFKSHCVLLGDAAHAIVPFFGQGMNAGFEDCLVFDELMDKFSNDLSLCLPV
 FSRLRIPDDHAISDLSMYNYIEMRAHVNSSWFIFQKNMERFLHAIMPSTFIPLYTMVTF
 SRIRYHEAVQRWHWQKKVINKGLFFLGSLIAISSTYLLIHYMSPRSFLRLRRPWNWIA
 HFRNTTCFPAKAVDSLEQISNLISR

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name KMO kynurenine 3-monooxygenase (kynurenine 3-hydroxylase) [Homo sapiens]

Official Symbol KMO

Synonyms KMO; kynurenine 3-hydroxylase; dJ317G22.1;

Gene ID 8564

mRNA Refseq NM_003679

Protein Refseq NP_003670

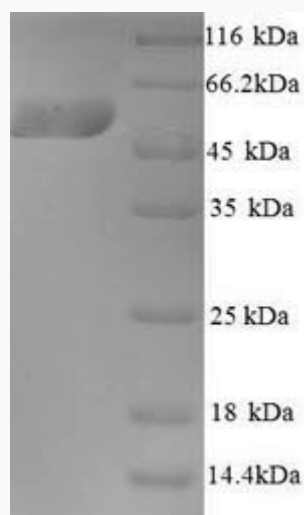
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MIM 603538

UniProt ID O15229



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

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