

Product datasheet for TP322594

kynurenine 3 monooxygenase (KMO) (NM_003679) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human kynurenine 3-monooxygenase (kynurenine 3-hydroxylase) (KMO), 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC222594 representing NM_003679
Red=Cloning site **Green**=Tags(s)

MDSSVIQRKKKVAVIGGGGLVGSLLQACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSHRGRQALKAVG
 LEDQIVSQGIPMRARMIHSLSGKSAIPYGTKSQYILSVSRENLNKDLLTAAEKYPNVKMHFNHRLKCN
 PEEGMITVLGSDKVPKDVTCDLIVGCDGAYSTVRSHLMKKPRFDYSQQYIPHGYMELTIPPKNGDYAMEP
 NYLHIWPRNTFMMIALPNMKNKSTCTLFMPFEEFEKLLTSNDVVDFFQKYFPDAIPLIGEKLIVQDFLL
 PAQPMISVKCSSFHKSHCVLLGDAHAIVPFFGQGMNAGFEDCLVDELMDKFSNDLSLCLPVFSRLRI
 PDDHAISDLSMYNYIEMRAHVNSSWFIFQKNMERFLHAIMPSTFIPLYTMVTFSRIRYHEAVQRWHWQKK
 VINKGLFFLGSLIAISSTYLLIHYMSPRSFLCLRRPWNWIAHFRNTTCFPAKAVDSLEQISNLISR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 55.6 kDa

Concentration: >0.1 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Bioactivity: The specific activity of KMO was determined by measuring the product 3-hydroxykynurenine formation from a conversion of Kynurenine. The reaction was carried out at 37 °C for 40min in the buffer containing 100 mM Tris, pH8.0, 10 mM KCl, 1 mM NADPH, 3 mM glucose-6-phosphate, 1 units/ml of glucose-6 phosphate dehydrogenase, and 100 µM kynurenine as the substrate

Surface Plasmon Resonance (SPR) (PMID:[26292018](#))

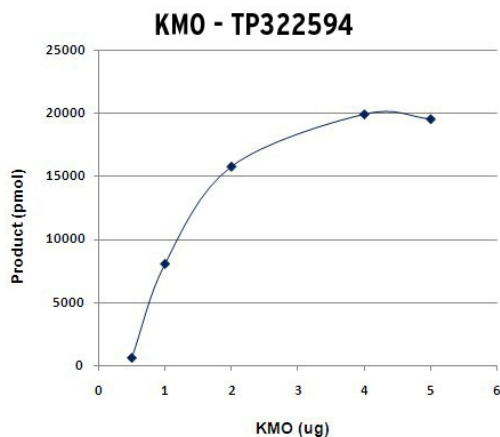
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

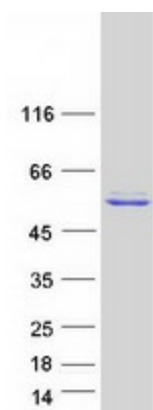


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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_003670
Locus ID:	8564
UniProt ID:	O15229
RefSeq Size:	4992
Cytogenetics:	1q43
RefSeq ORF:	1458
Synonyms:	dj317G22.1
Summary:	This gene encodes a mitochondrion outer membrane protein that catalyzes the hydroxylation of L-tryptophan metabolite, L-kynurenine, to form L-3-hydroxykynurenine. Studies in yeast identified this gene as a therapeutic target for Huntington disease. [provided by RefSeq, Oct 2011]
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Tryptophan metabolism

Product images:





Coomassie blue staining of purified KMO protein (Cat# TP322594). The protein was produced from HEK293T cells transfected with KMO cDNA clone (Cat# [RC222594]) using MegaTran 2.0 (Cat# [TT210002]).