

Product datasheet for **TP322594L**

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), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC222594 representing NM_003679 Red =Cloning site Green =Tags(s)
	<p>MDSSVIQRKKVAVIGGGVLVGS LQACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSHRGRQALKAVG LEDQIVSQGIPMRARMIHSLSGKSAIPYGTKSQYILSVSRENLNKDLLTAAEKYPNVKMHFNHLLKCN PEEGMITVLGSDKVPKDVTCDLIVGCDGAYSTVRSMLMKPRFDYSQQYIPHYGMELTIPPKNGDYAMEP NYLHIWPRNTFMMIALPNMNKSFTCTLFMPFEEFEKLLTNSNDVVDFFQKYFPDAIPLIGEKLLVQDFLL PAQPMISVKCSSFHFKSHCVLLGDAAHAIVPFFGQGMNAGFEDCLVDELMDKFSNDLSLCLPVFSRLRI PDDHAISDLSMYNYIEMRAHVNSSWFIFQKNMERFLHAIMPSTFIPLYTMVTFSRIRYHEAVQRWHWQKK VINKGLFFLGSLIAISSYLLIHYMSPRSFLCLRRPWNWIAHFRNTTCFPAKAVDSLEQISNLISR</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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](#), [A8K693](#)

RefSeq Size: 4992

Cytogenetics: 1q43

RefSeq ORF: 1458

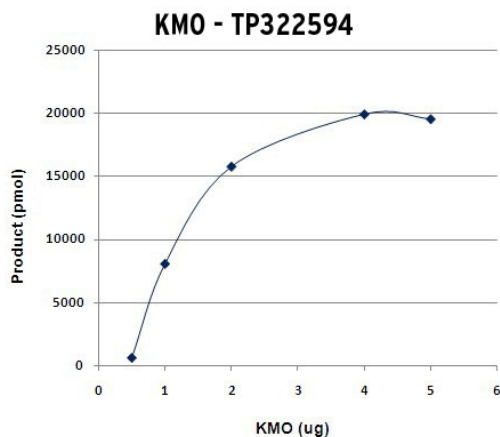
Synonyms: dj317G22.1

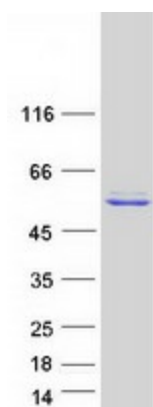
Summary: This gene encodes a mitochondrion outer membrane protein that catalyzes the hydroxylation of L-tryptophan metabolite, L-kynurenine, to form L-3-hydroxykynurenine. Studies in yeast identified this gene as a therapeutic target for Huntington disease. [provided by RefSeq, Oct 2011]

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]).