

Human KMO protein

Catalog Number: orb244327

Product Manual

Product Name	Human KMO protein
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Relevance	Catalyzes the hydroxylation of L-kynurenine (L-Kyn) to form 3-hydroxy-L-kynurenine (L-3OHKyn) (PubMed:29429898, PubMed:23575632, PubMed:26752518, PubMed:28604669, PubMed:29208702). 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 (Probable).
Expression host	E.coli
Purity :	>85%(SDS-PAGE)
Product Info :	N-terminal 6xHis-SUMO-tagged
Molecular Weight :	71.8kDa
Storage Buffer	Tris-based buffer, 50% glycerol
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
AA Sequence	

MDSSVIQRKKVAVIGGGLVGSLLQACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSHRGRQALKA
 VGLEDQIVSQGIPMRARMIHSLSGKKSAPIPYGTKSQYILSVSRENLNKDLLTAAEKYPNVKMHFNHRL
 KCNPEEGMITVLGSDKVPKDVTCDLIVGCDGAYSTVRSHLMKKPRFDYSQQYIPHYGMELTIPPKNGD
 YAMEPNYLHIWPRNTFMMIALPNMNKSFTCTLFMPFEEFEKLLTSNDVVDFFQKYFPDAIPLIGEKL
 QDFLLPAQPMISVKCSSFHFKSHCVLLGDAHAHAIVPFFGQGMNAGFEDCLVDELMDKFSNDLSLCL
 PVFSRLRIPDDHAISDLSMNYIEMRAHVNSSWFIFQKNMERFLHAIMPSTFIPLYTMVTFSRIRYHEA

VQRWHWQKKVINKGLFFLGSLIAISSTYLLIHYMSPRSFLRLRRPWNWIAHFRNTTCFPAKAVDSLEQI
SNLISR

References

"The DNA sequence and biological annotation of human chromosome 1."Gregory S.G., Barlow K.F., McLay K.E., Kaul R., Swarbreck D., Dunham A., Scott C.E., Howe K.L., Woodfine K., Spencer C.C.A., Jones M.C., Gillson C., Searle S., Zhou Y., Kokocinski F., McDonald L., Evans R., Phillips K. Bentley D.R.

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