

## Rat Kmo protein

**Catalog Number: orb358672**

### Product Manual

Product Name	Rat Kmo protein
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Relevance	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.
Expression host	E.coli
Purity :	>85%(SDS-PAGE)
Product Info :	N-terminal 6xHis-SUMO-tagged
Molecular Weight :	59.5kDa
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.
Sequence	<p>MASSDTEGKRVVVIGGGLV GALNACFLAKRNFQVDVYEAREDIRVANFMRGRSINLALS YRGRQALK  AVGLEDQIVSKGVPMKARMIHSLSGKKS AIPYGNKSQYILSISREKLNKDLLTAVESYPNAKVHFGHKLS  KCCPEEGILTMLGPNKVPRDITCDLIVGCDGAYSTVRAHLMKKPRFDYSQQYIPHGYMELTIPPKNGEY  AMEPNCLHIWPRNAFMMIALPNMDKSFTCTLFMSFEEFEKLPTHSDVLDFFQKNFPDAIPLMGEQAL  MRDFFLLPAQPMISVKCSPFHLKSRVLMGDAAHAI VPFQGMNAGFEDCLVDELMDKFNNDL S  VCLPEFSRFRIPDDHAISDLSMYNIEMRAHVNSRWFLFQRLLDK</p>
References	"Kynurenine-3-monooxygenase inhibition prevents multiple organ failure in rodent models of acute pancreatitis." Mole D.J., Webster S.P., Uings I., Zheng X., Binnie M.,

Wilson K., Hutchinson J.P., Mirguet O., Walker A., Beaufils B., Ancellin N., Trottet L., Beneton V., Mowat C.G., Wilkinson M., Rowland P., Haslam C., McBride A. Iredale J.P.

Nat. Med. 22:202-209(2016)

Nature 441:315-321(2006)

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