

## Recombinant human Kynurenine 3-monooxygenase

Catalog No: #AP72640



Package Size: #AP72640-1 20ug #AP72640-2 100ug #AP72640-3 1mg

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## Description

Product Name	Recombinant human Kynurenine 3-monooxygenase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-486aaSequence Info:Full Length
Other Names	Kynurenine 3-hydroxylase
Accession No.	O15229
Uniprot	O15229
GeneID	8564;
Calculated MW	57.8 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MDSSVIQRKKVAVIGGGLVGSLLQACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSHRGRQALKAVGLED QIVSQGIPMRARMIHSLSGKKSAPYGTKSQYILSVSRENLNKDLLTAAEKYPNVKMHFNHRLKCNPEEGMIT VLGSDKVPKDVTCDLIVGCDGAYSTVRSMLMCKPRFDYSQQYIPHYGMELTIPPKNGDYAMEPNYLHIWPRNT FMMIALPNMNKSFTCTLFMPFEEFEKLLTSDNVVDFQKYFPDAIPLIGEKLLVQDFLLPAQPMISVKCSSFHF KSHCVLLGDAAHAIVPFFGQGMNAGFEDCLVFDELMDKFSNDLSLCLPVFSRLRIPDDHAISDLSMYNYIEMRA HVNSSWFIFQKNMERFLHAIMPTFIPLYTMVTFSRIRYHEAVQRWHWQKKVINKGLFFLGSLIAISSTYLLIHYM SPRSFLRLRRPWNWIAHFRNTTCFPAKAVDSLEQISNLISR
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

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.

## References

Cloning and functional expression of human kynurenine 3-monooxygenase.Alberati-Giani D., Cesura A.M., Broger C., Warren W.D., Rover S., Malherbe P.FEBS Lett. 410:407-412(1997)Research Topic:Metabolism

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Note: This product is for in vitro research use only