Kynurenine 3-monooxygenase Recombinant Protein | KMO recombinant protein

Recombinant Human Kynurenine 3-monooxygenase

CATALOG #	HOST
AAA115134	**E Coli or Yeast or Baculovirus or Mammalian Cell**

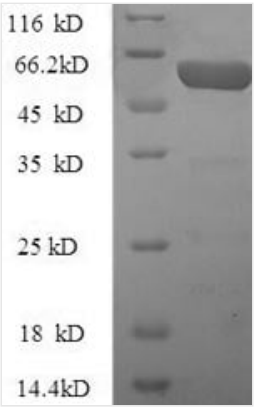
PRODUCT SYNONYMS

Kynurenine 3-monooxygenase; Recombinant Human Kynurenine 3-monooxygenase; Kynurenine 3-hydroxylase; KMO recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-486aa; Full Length
Sequence	MDSSVIQRKK VAVIGGGLVG SLQACFLAKR NFQIDVYEAR EDTRVATFTR GRSINLALSH RGRQALKAVG LEDQIVSQGI PMRARMIHSL SGKKSAIPYG TKSQYILSVS RENLNKDLLT AAEKYPNVKM HFNHRLLKCN PEEGMITVLG SDKVPKDVTC DLIVGCDGAY STVRSHLMKK PRFDYSQQYI PHGYMELTIP PKNGDYAMEP NYLHIWPRNT FMMIALPNMN KSFTCTLFMP FEEFEKLLTS NDVVDFFQKY FPDAIPLIGE KLLVQDFFLL PAQPMISVKC SSFHFKSHCV LLGDAAHAIV PFFGQGMNAG FEDCLVFDEL MDKFSNDLSL CLPVFSRLRI PDDHAISDLS MYNYIEMRAH VNSSWFIFQK NMERFLHAIM PSTFIPLYTM VTFSRIRYHE AVQRWHWQKK VINKGLFFLG SLIAISSTYL LIHYMSPRSF LRLRRPWNWI AHFRNTTCFP AKAVDSLEQI SNLISR
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for KMO recombinant protein	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.
Product Categories/Family for KMO recombinant protein	Metabolism

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) Functional characterization and mechanism of action of recombinant human kynurenine 3-hydroxylase.Breton J., Avanzi N., Magagnin S., Covini N., Magistrelli G., Cozzi L., Isacchi A.Eur. J. Biochem. 267:1092-1099(2000) Functional characterization and mechanism of action of recombinant human kynurenine 3-hydroxylase.Breton J., Avanzi N., Magagnin S., Covini N., Magistrelli G., Cozzi L., Isacchi A.Eur. J. Biochem. 267:1092-1099(2000) . 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., Atkinson A., Cooper R., Jones C., Hall R.E., Andrews T.D., Lloyd C., Ainscough R., Almeida J.P., Ambrose K.D., Anderson F., Andrew R.W., Ashwell R.I.S., Aubin K., Babbage A.K., Bagguley C.L., Bailey J., Beasley H., Bethel G., Bird C.P., Bray-Allen S., Brown J.Y., Brown A.J., Buckley D., Burton J., Bye J., Carder C., Chapman J.C., Clark S.Y., Clarke G., Clee C., Cobley V., Collier R.E., Corby N., Coville G.J., Davies J., Deadman R., Dunn M., Earthrowl M., Ellington A.G., Errington H., Frankish A., Frankland J., French L., Garner P., Garnett J., Gay L., Ghori M.R.J., Gibson R., Gilby L.M., Gillett W., Glithero R.J., Grafham D.V., Griffiths C., Griffiths-Jones S., Grocock R., Hammond S., Harrison E.S.I., Hart E., Haugen E., Heath P.D., Holmes S., Holt K., Howden P.J., Hunt A.R., Hunt S.E., Hunter G., Isherwood J., James R., Johnson C., Johnson D., Joy A., Kay M., Kershaw J.K., Kibukawa M., Kimberley A.M., King A., Knights A.J., Lad H., Laird G., Lawlor S., Leongamornlert D.A., Lloyd D.M., Loveland J., Lovell J., Lush M.J., Lyne R., Martin S., Mashreghi-Mohammadi M., Matthews L., Matthews N.S.W., McLaren S., Milne S., Mistry S., Moore M.J.F., Nickerson T., O'Dell C.N., Oliver K., Palmeiri A., Palmer S.A., Parker A., Patel D., Pearce A.V., Peck A.I., Pelan S., Phelps K., Phillimore B.J., Plumb R., Rajan J., Raymond C., Rouse G., Saenphimmachak C., Sehra H.K., Sheridan E., Shownkeen R., Sims S., Skuce C.D., Smith M., Steward C., Subramanian S., Sycamore N., Tracey A., Tromans A., Van Helmond Z., Wall M., Wallis J.M., White S., Whitehead S.L., Wilkinson J.E., Willey D.L., Williams H., Wilming L., Wray P.W., Wu Z., Coulson A., Vaudin M., Sulston J.E., Durbin R.M., Hubbard T., Wooster R., Dunham I., Carter N.P., McVean G., Ross M.T., Harrow J., Olson M.V., Beck S., Rogers J., Bentley D.R.Nature 441:315-321(2006) Endogenous kynurenines as targets for drug discovery and development.Stone T.W., Darlington L.G.Nat. Rev. Drug Discov. 1:609-620(2002)

NCBI AND UNIPROT INFORMATION

NCBI GI #	187960045
NCBI GeneID	8564
NCBI Accession #	NP_003670.2
NCBI GenBank Nucleotide #	NM_003679.4
UniProt Accession #	O15229; Q5SY07; Q5SY08; Q5SY09; A2A2U8; A2A2U9; A2A2V0
Molecular Weight	57.8 kDa
NCBI Official Full Name	kynurenine 3-monooxygenase
NCBI Official Synonym Full Names	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)
NCBI Official Symbol	KMO
NCBI Official Synonym Symbols	dJ317G22.1
NCBI Protein Information	kynurenine 3-monooxygenase
UniProt Protein Name	Kynurenine 3-monooxygenase
UniProt Gene Name	**KMO**
UniProt Entry Name	KMO_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/kmo-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/115134