

KMO Protein, Human, Recombinant (His)

General Information

Synonyms: KMO;Kynurenine 3-monooxygenase;Kynurenine 3-hydroxylase

Protein Construction: 1-486 aa

Species: Human

Expression Host: E. coli

Accession: O15229

Molecular Weight: 61.9 kDa (predicted)

AA Sequence:

MDSSVIQRKKVAVIGGGLVGLQACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSHRGRQALKAVGLED
QIVSQGIPMRARMIHSLSGKSAIPYGTKSQYILSVSRENLNKDLLTAAEKYPNVKMHFNRLLKCNPEEGMIT
VLGSDKVPKDVTCDLIVGCDGAYSTVRSHLMKKPRFDYSQQYIPHYGMYELTIPPKNGDYAMEPNYLHIWPRN
TFMMIALPNMNKSFTCTLFMPFEEFEKLLTSNDVVDFQKYFPDAIPLIGEKLLVQDFLLPAQPMISVKCSSFH
FKSHCVLLGDAAHAIVPFFGQGMNAGFEDCLVFDELMDKFSNDLSLCLPVFSRLRIPDDHAISDLSMYNYIEM
RAHVNSSWFIFQKNMERFLHAIMPSTFIPLYTMVTFSRIRYHEAVQRWHWQKKVINKGLFFLGSLIAISSTYLLI
HYMSPRSFLRLRRPWNWIAHFRNTTCFPAKAVDSLEQISNLISR

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

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 (Probable).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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