

Recombinant Human MAOA Protein, 2-497, N-His and N-FLAG tagged

Cat. No. MAOA-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAOA (monoamine oxidase A), encompassing amino acids 2-497. This construct contains an N-terminal His-tag (6xHis) followed by a Flag-tag was expressed in Sf9. The recombinant protein was affinity purified.
Species	Human
Source	Sf9 Cells
ProteinLength	2-497
Description	Monoamine Oxidases (MAO) catalyze the oxidation of monoamines such as dopamine, serotonin and adrenalin. They are found bound to the outer membrane of mitochondria in most cell types in the body. Two subtypes of monoamine oxidase have been identified: MAO-A and MAO-B. Both are found in neurons and astroglia, with MAO-A also found in the liver, gastrointestinal tract and placenta and MAO-B in blood platelets. Abnormal regulation of MAOs in the body has been associated with depression, substance abuse, attention deficit disorder, and irregular sexual maturation. Mutation of this gene results in Brunner syndrome. This gene has also been associated with a variety of other psychiatric disorders, including antisocial behavior. Alternatively spliced transcript variants encoding multiple isoforms have been observed.
Form	Aqueous buffer solution

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	58 kDa
Purity	≥90%
Notes	Avoid freeze/thaw cycles
Usage	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Storage	At least 6 months at –80 centigrade.
Storage Buffer	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol, and 100 µg/mL FLAG Peptide
Shipping	At -80 centigrade
References	1. Hodorova, I., et al., Med. Sci. Monit. 2012;18(12): BR482-BR486. 2. Brunner, H.G., et al., Science. 1993;262(5133): 578-580.

GENE INFORMATION

Gene Name	MAOA monoamine oxidase A [Homo sapiens (human)]
Official Symbol	MAOA
Synonyms	MAOA; monoamine oxidase A; amine oxidase [flavin-containing] A; MAO-A; monoamine oxidase type A
Gene ID	4128

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mRNA Refseq	NM_000240
Protein Refseq	NP_000231
MIM	309850
UniProt ID	P21397

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