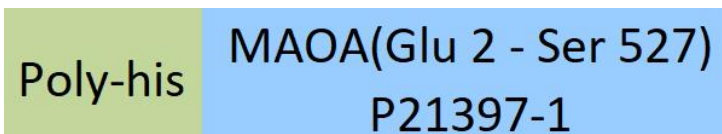


Source

Human MAOA, His Tag(MAA-H5547) is expressed from Baculovirus-Insect cells. It contains AA Glu 2 - Ser 527 (Accession # [P21397-1](#)).

Predicted N-terminus: Met

Molecular Characterization

This protein carries a polyhistidine tag at the N-terminus

The protein has a calculated MW of 61.6 kDa. The protein migrates as 60 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

This product is not suitable for cell based experiments due to cytotoxicity of DDM.

DDM and CHS are INDISPENSABLE to keep membrane protein soluble and active, under no circumstance should you remove DDM and CHS.

DDM/CHS buffer (DC-11) is sold separately and not included in protein, and please contact us if you need the buffer.

If glycerol is not compatible to your application, remove glycerol just before immediate experiment, and NEVER store glycerol-free protein solution.

Supplied as 0.2 µm filtered solution in 50 mM HEPES, 150 mM NaCl, DDM, CHS, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped as sterile liquid solution with dry ice, please inquire the shipping cost.

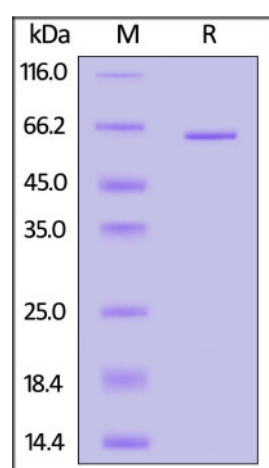
Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

**The DDM/CHS buffer (Cat. No. [DC-11](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

SDS-PAGE

Human MAOA, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity

Human MAOA Protein, His Tag (active enzyme)

Catalog # MAA-H5547

Measured by its ability to produce hydrogen peroxide during the oxidation of Tyramine. The specific activity is >300 pmol/min/ug, as measured under the described conditions(QC tested).

Background

MAOA, Monoamine oxidase-A is an FAD-dependent mitochondrial enzyme, which, together with its isoenzyme MAO-B, catalyses the oxidative deamination of structurally diverse amines. MAOA is mainly involved in the metabolism of monoamine neurotransmitters, such as such as serotonin, dopamine, and norepinephrine. Inhibitors of MAOA are in clinical use for affective disorders and is approved to treat depression.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.