Human MAOB / Monoamine Oxidase B Protein, His Tag (active enzyme)

Catalog # MAB-H5547

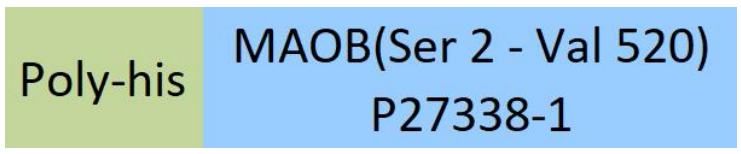
Synonym

MAOB, MAO-B,Monoamine Oxidase B,Monoamine oxidase type B

Source

Human MAOB, His Tag(MAB-H5547) is expressed from Baculovirus-Insect cells. It contains AA Ser 2 - Val 520 (Accession # P27338-1).
Predicted N-terminus: Met

Molecular Characterization



This protein carries a polyhistidine tag at the N-terminus

The protein has a calculated MW of 60.6 kDa. The protein migrates as 55 kDa under reducing (R) condition (SDS-PAGE) .

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% 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

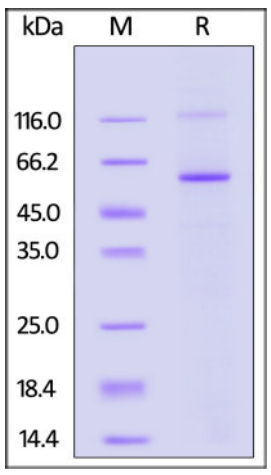
Please avoid repeated freeze-thaw cycles.

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 isotype control of empty/mock nanodisc (Cat. No. APO-H51H3) is sold separately and not included in protein, you can follow this link for product information.

SDS-PAGE



Human MAOB, 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 90%.

Bioactivity

Measured by its ability to produce hydrogen peroxide during the oxidation of benzylamine. The specific activity is >35 pmol/min/μg (QC tested).

Background

Monoamine Oxidase Type B (MAOB) is an enzyme located in the outer mitochondrial membrane. It catalyzes the oxidative deamination of biogenic and xenobiotic amines and plays an important role in the breakdown of dopamine in the brain. MAOB inhibitors, that reduces dopamine turnover, are in clinical use for the treatment of Parkinsons disease (PD).

Clinical and Translational Updates

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