

Human ORM2 Protein (His Tag)

Catalog Number: 13299-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

AGP-B; AGP-B'; AGP2; ORM2; Agp1; Orm-2

Protein Construction:

A DNA sequence encoding the human ORM2 (P19652) (Met1-Ser201) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gln 19

Molecular Mass:

The recombinant human ORM2 consists of 194 amino acids and predicts a molecular mass of 23.1 KDa. It migrates as an approximately 23 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

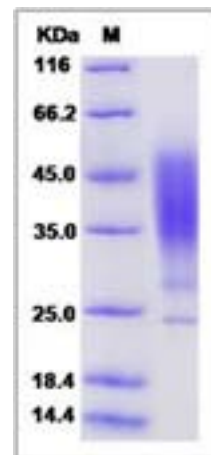
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

ORM2 belongs to the calycin superfamily, lipocalin family. Lipocalins share limited regions of sequence homology and a common tertiary structure architecture. They transport small hydrophobic molecules such as steroids, bilins, retinoids, and lipids. Lipocalins can be found in gram negative bacteria, vertebrate cells, and invertebrate cells, and in plants. They are associated with many biological processes. ORM2 functions as transport protein in the blood stream. It is expressed by the liver and secreted in plasma. It seems that ORM2 function in modulating the activity of the immune system during the acute-phase reaction. It binds various hydrophobic ligands in the interior of its beta-barrel domain. It also binds synthetic drugs and influences their distribution and availability.

References

1. Davila S, et al. (2010) New genetic associations detected in a host response study to hepatitis B vaccine. *Genes Immun.* 11(3):232-8.
2. Zhang X, et al. (2012) The potential role of ORM2 in the development of colorectal cancer. *PLoS One.* 7(2):e31868.

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