

For Research Use Only

Recombinant Human ORM1 protein (His Tag)(HPLC verified)



Catalog Number: Eg0377

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human ORM1 protein Gln19-Ser201 (Accession# P02763) with a His tag at the C-terminus.

GeneID:
5004

Accession:
P02763

Predicted Molecular Mass:
22.9 kDa

SDS-PAGE:
32-50 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

ORM1 (Orosomucoid 1), also named AGP1 (Alpha-1-acid glycoprotein 1) and AGP A, is an abundant plasma protein characterized by anti-inflammatory and immune-modulating properties. In human, two isoforms have been described, named ORM1 and ORM2. ORM1 is implicated in two main different functions: (1) as a lipocalin family member, it exerts a carrier activity especially for drug and lipid molecules; (2) being an acute phase protein. ORM1 are increased in the patients with cancers, burnt injury or surgical operation. ORM1 could be a potential novel urinary biomarker for the early detection of chronic heart failure.

References

1. Zhang Q. et al. (2008) Cytokine Growth Factor Rev. 19:347-56.
2. Dillon SR. et al. (2004) Nat Immunol. 5:752-60.
3. Sonkoly E. et al. (2006) J Allergy Clin Immunol. 117: 411-417.
4. Bilsborough J. et al. (2006) J Allergy Clin Immunol. 117: 418-425.
5. Raap U. et al. (2008) J Allergy Clin Immunol. 122: 421-423.

Synonyms

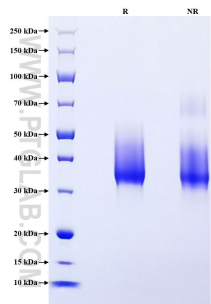
AGP1, Alpha 1 acid glycoprotein 1, Alpha-1-acid glycoprotein 1, OMD 1, ORM

For technical support and original validation data for this product please contact

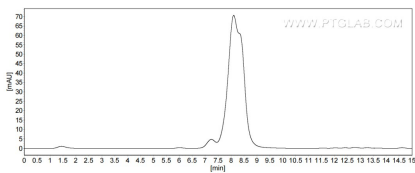
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Selected Validation Data



Purity of Recombinant Human ORM1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human ORM1 was greater than 90% as determined by SEC-HPLC.