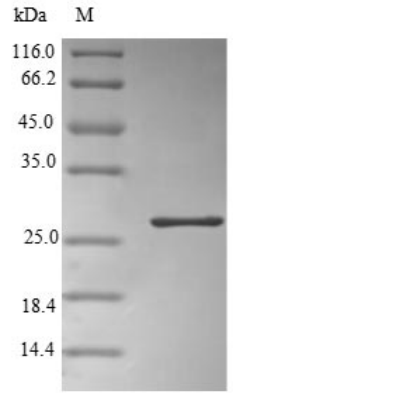
Recombinant Human Alpha-1-acid glycoprotein 2 (ORM2)

Product Code	CSB-EP017238HU
Relevance	Functions as transport protein in the blood stream. Binds various hydrophobic ligands in the interior of its beta-barrel domain. Also binds synthetic drugs and influences their distribution and availability. Appears to function in modulating the activity of the immune syst during the acute-phase reaction.
Abbreviation	Recombinant Human ORM2 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P19652
Alias	Orosomucoid-2 ;OMD 2
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QIPLCANLVPVPITNATLDRITGKWFYIASAFRNEEYNKSVQEIQATFFYFTPNK TEDTIFLREYQTRQNQCFYNSSYLNVQRENGTVSRYEGGREHVAHLLFLRDTK TLMFGSYLDDEKNWGLSFYADKPETTKEQLGEFYEALDCLCIPRSDVMYTDW KKDKCEPLEKQHEKERKQEEGES
Source	E.coli
Target Names	ORM2
Expression Region	19-201aa(same as CSB-RP145494h)
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	25.7kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

This recombinant Human ORM2 protein is an E.coli expressed protein (Full Length of Mature Protein) with N-terminal 6xHis tag and its purity is 90%+ determined by SDS-PAGE. With the appropriate cDNA and PCR methods, ORM2 expression plasmids can be rapidly produced. which must undergo denaturation and folding cycle, can be recovered with more modest yields. Hence, using small-scale fermentations and laboratory-scale processing equipment, ORM2 proteins (or subdomains thereof) can usually be produced in sufficient quantities to initiate most studies including detailed structural determinations.which must undergo denaturation and folding cycle, can be recovered with more modest yields. Hence, using small-scale fermentations and laboratory-scale processing equipment, ORM2 proteins (or subdomains thereof) can usually be produced in sufficient quantities to initiate most studies including detailed structural determinations.

ORM2, an acute-phase protein, is predominately produced by the liver in response to the systemic reaction to inflammation and is then secreted in plasma. It can act as an anti-inflammatory and immunoregulatory factor because of its anti-neutrophil and anti-complement activity. ORM2 is linked to intestinal system diseases and cancers. Studies have shown that ORM2 may be involved in tumor metastasis and progression. ORM2 is considered an ideal biomarker for cholangiocarcinoma in combination with kinesin 18A.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.