Alpha-1-Acid Glycoprotein (ORM1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alpha-1-acid glycoprotein (Orm1), Recombinant Protein
Full Product Name	Recombinant Rat Alpha-1-acid glycoprotein (Orm1)
Product Gene Name	Orm1 recombinant protein
Product Synonym Names	Orosomucoid (OMD)
Sequence	QNPEPANITL GIPITNETLK WLSDKWFYMG AAFRDPVFKQ AVQTIQTEYF YLTPNLINDT IELREFQTTD DQCVYNFTHL GVQRENGTLS KCAGAVKIFA HLIVLKKHGT FMLAFNLTDE NRGLSFYAKK PDLSPELRKI FQQAVKDVGM DESEIVFVDW TKDKCSEQQK QQLELEKETK KETKKDP
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process) If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyop
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	23,575 Da
Sequence Positions	19-205aa, Full Length of Mature Protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P02764
Species	Rat
Tag	N-terminal 6xHis-tagged
Function	Functions as transport protein in the blood stream. Binds various ligands in the interior of its beta-barrel domain (By similarity). Appears to function in modulating the activity of the immune system during the acute-phase reaction.
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 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Product Categories/Family for Orm1 recombinant protein	Cardiovascular
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Orm1 recombinant protein	MBS7137010 is a recombinant protein targeting Orm1. Also known as Recombinant Rat Alpha-1-acid glycoprotein (Orm1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Product References and Citations for Orm1 recombinant protein	"Nucleotide sequence of rat alpha 1-acid glycoprotein messenger RNA."Ricca G.A., Taylor J.M.J. Biol. Chem. 256:11199-11202 (1981)

Other Notes	Small volumes of Orm1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Orm1. It may not necessarily be applicable to this product.

NCBI GI #	16757980
NCBI GeneID	24614
NCBI Accession #	NP_445740.1
UniProt Primary Accession #	P02764
UniProt Related Accession #	P02764
GenBank Nucleotide #	NM_053288.2
NCBI Official Full Name	alpha-1-acid glycoprotein
NCBI Official Synonym Full Names	orosomucoid 1
NCBI Official Symbol	Orm1
NCBI Official Synonym Symbols	AGP; OMD; Orm; Agpa1
UniProt Protein Name	Alpha-1-acid glycoprotein
UniProt Synonym Protein Names	Orosomucoid
Protein Family	Alpha-1-acid glycoprotein
UniProt Gene Name	Orm1
UniProt Entry Name	A1AG_RAT
NCBI Protein Information	alpha-1-acid glycoprotein
NCBI Summary for Orm1	an acute phase reactant protein; may have a role in the acute inflammation response [RGD, Feb 2006]
Research Articles on Orm1	**1.** context-dependent nature of ORM1 angioregulatory function is further demonstrated in the CAM assay where ORM1 stimulates developmental angiogenesis without exerting any inhibitory activity
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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