

# Mouse ASGR1 Protein; His Tag

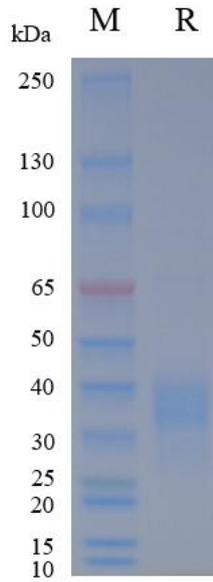
## Product Information

<b>Product Name</b>	Mouse ASGR1 Protein; His Tag
<b>Storage temp</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-88297RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-88297RP-1000 / 1 mg</b>

## Protein Information

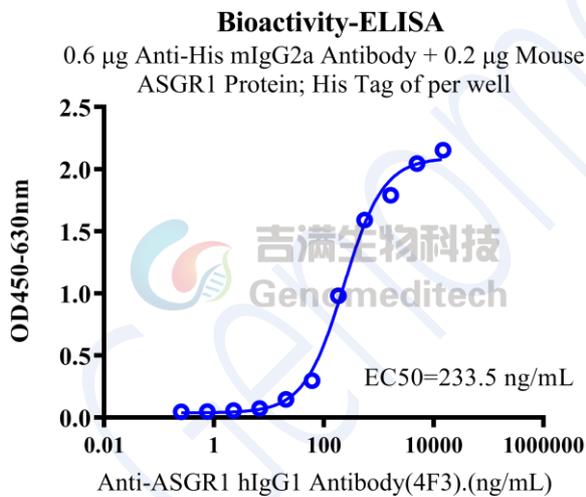
<b>Alternative Names</b>	ASGP-R 1, ASGPR 1, Hepatic lectin H1, HL-1
<b>Source</b>	Mouse ASGR1 Protein; His Tag (GM-88297RP) is expressed from human 293 cells (HEK-293). It contains AA Gln 61 - Asn 284 (Accession # P34927). This protein carries a His tag at the N-terminus.
<b>Purity</b>	> 95% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	27.2 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
<b>Description</b>	ASGR1 is a hepatocyte-expressed transmembrane glycoprotein that forms part of the ASGPR complex. It binds desialylated glycoproteins with terminal galactose or GalNAc, mediating endocytosis and clearance to maintain hepatic protein turnover. Structurally, it has a short cytoplasmic tail, a single transmembrane domain, and an extracellular lectin-like domain, working with ASGR2 for high-affinity binding. ASGR1 mainly drives clathrin-mediated endocytosis, routing ligands to endosomes/lysosomes. Beyond clearance, it influences signaling related to hepatic metabolism, inflammation, and receptor recycling, potentially affecting ubiquitination and recycling pathways and intersecting lipid/carbohydrate metabolism in hepatocytes. Dysregulation may impact plasma protein clearance and liver disease, making ASGPR a target for hepatic delivery and therapy.

## SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA



Mouse ASGR1 Protein; His Tag (Catalog # GM-88297RP) was immobilized at 2  $\mu$ g/ml (100  $\mu$ L/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6  $\mu$ g/well) precoated. Increasing concentrations of Anti-ASGR1 hIgG1 Antibody(4F3) (Catalog # GM-88208AB) were added.