

FITC-Labeled Human ASGR1 / ASGPR1 Protein, His Tag (MALS verified)

Catalog # AS1-HF243



BIOSYSTEMS
Acro

Synonyms

ASGP-R 1, ASGPR 1, C-type lectin domain family 4 member H1, Hepatic lectin H1, HL-1

Source

FITC-Labeled Human ASGR1 Protein, His Tag (AS1-HF243) is expressed from human 293 cells (HEK293). It contains AA Gln 62 - Leu 291 (Accession # [P07306-1](#)).

Predicted N-terminus: His

Molecular Characterization

 ASGR1 Structure

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 42.7 kDa. The protein migrates as 48-58 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.

Purity

>85% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



FITC-Labeled Human ASGR1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 85% (With [Star Ribbon Pre-stained Protein Marker](#)).

Activity-ELISA

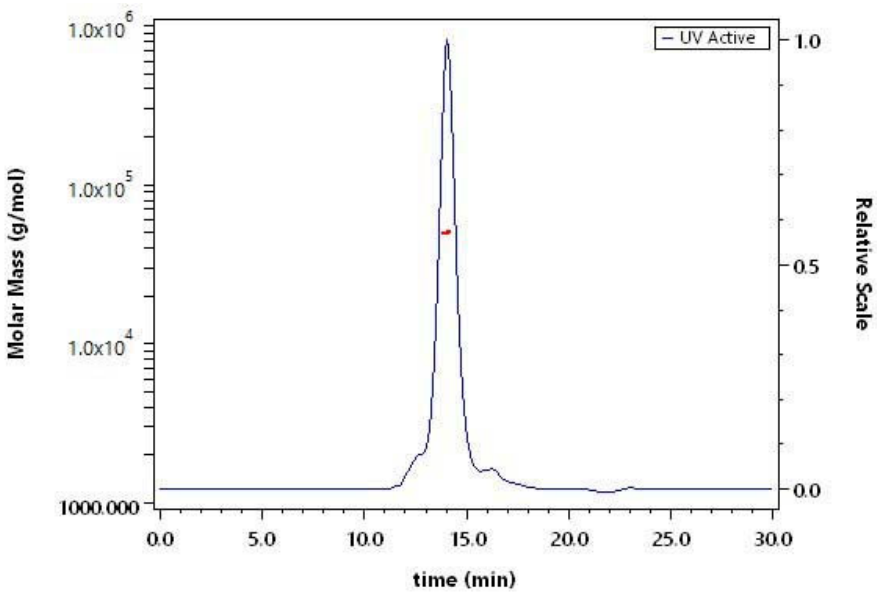


Immobilized FITC-Labeled Human ASGR1 Protein, His Tag (Cat. No. AS1-HF243) at 1 µg/mL (100 µL/well) can bind Mouse Anti-Human ASGR1 antibody-4G5, Mouse IgG2b|Mouse Kappa with a linear range of 0.06-2 ng/mL (QC tested).

Background

This gene encodes a subunit of the asialoglycoprotein receptor. This receptor is a transmembrane protein that plays a critical role in serum glycoprotein homeostasis by mediating the endocytosis and lysosomal degradation of glycoproteins with exposed terminal galactose or N-acetylgalactosamine residues. The asialoglycoprotein receptor may facilitate hepatic infection by multiple viruses including hepatitis B, and is also a target for liver-specific drug delivery. The asialoglycoprotein receptor is a hetero-oligomeric protein composed of major and minor subunits, which are encoded by different genes. The protein encoded by this gene is the more abundant major subunit. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

SEC-MALS



The purity of FITC-Labeled Human ASGR1 Protein, His Tag (Cat. No. AS1-HF243) is more than 85% and the molecular weight of this protein is around 45-65 kDa verified by SEC-MALS.



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