ASGR2 Protein, Rat (Cell-Free, His)

Cat. No.:	HY-P702218
Synonyms:	Asialoglycoprotein receptor 2; Hepatic lectin R2/3; HL-2; rHL-2
Species:	Rat
Source:	E. coli Cell-free
Accession:	P08290 (M1-Y301)
Gene ID:	29403
Molecular Weight:	41.1 kDa

PROPERTIES

AA Sequence	M E K D F Q D I Q Q L D S E E N D H Q L I G D E E Q G S H V Q N L R T E N P R W G G Q P P S R P F P Q R L C S K F R L S L L A L A F N I L L L V V I C V V S S Q S M Q L Q K E F W T L K E T L S N F S T T T L M E F K A L D S H G G S R N D N L T S W E T I L E K K Q K D I K A D H S T L L F H L K H F P L D L R T L T C Q L A F F L S N G T E C C P V N W V E F G G S C Y W F S R D G L T W A E A D Q Y C Q M E N A H L L V I N S R E E Q E F V V K H R G A F H I W I G L T D K D G S W K W V D G T E Y R S N F K N W A F T Q P D N W Q G H E E G G S E D C A E I L S D G L W N D N F C Q Q V N R W A C E R K R D I T Y
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	ASGR2 Protein plays a pivotal role in cellular processes by mediating the endocytosis of plasma glycoproteins from which the terminal sialic acid residue on complex carbohydrate moieties has been removed. Recognizing terminal galactose and N-acetylgalactosamine units, the receptor facilitates the internalization of ligands, forming a complex that is subsequently

transported to a sorting organelle. Within this organelle, the receptor and ligand disassociate, and ASGR2 is recycled back to the cell membrane surface. The protein's engagement in these dynamic processes highlights its significance in the cellular handling of glycoproteins and contributes to the regulation of cellular homeostasis. Notably, ASGR2 also interacts with LASS2, broadening its molecular associations and suggesting potential roles in cellular signaling or coordination.

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