Mouse Glypican 1/GPC1 Protein

Cat. No. GPC-MM111

Description

Source	Recombinant Mouse Glypican 1/GPC1 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Asp24-Ser529.
Accession	Q9QZF2
Molecular Weight	The protein has a predicted MW of 56.8 kDa. Due to glycosylation, the protein migrates to 65-68 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

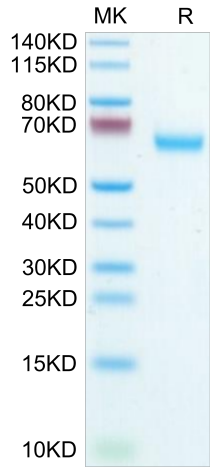
Formulation	Lyophilized from 0.22μm filtered solution in 50mM Tris,150mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CAR-T cells targeting glypican-1 (GPC1)-specific human and murine CAR-T cells generated from our original anti-human/mouse GPC1 antibody showed strong antitumor effects in xenogeneic and syngeneic mouse models, respectively. Importantly, the murine CAR-T cells enhanced endogenous T cell responses against a non-GPC1 tumor antigen through the mechanism of antigen-spreading and showed synergistic antitumor effects with anti-PD-1 antibody without any adverse effects in syngeneic models.

Assay Data

Tris-Bis PAGE



Mouse Glypican 1/GPC1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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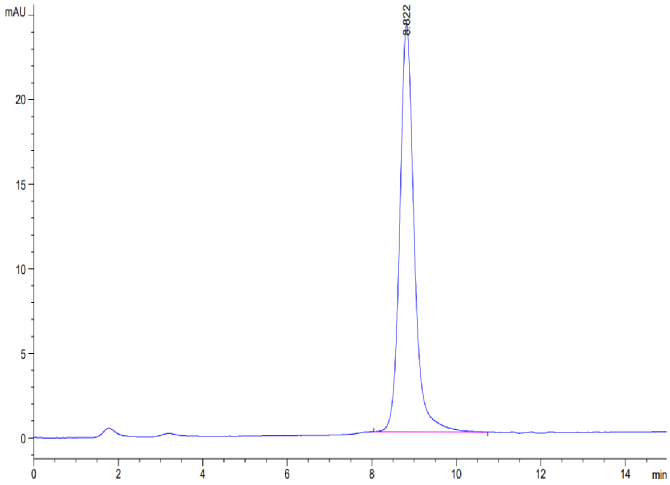
Assay Data



The purity of Mouse Glypican 1/GPC1 is greater than 95% as determined by SEC-HPLC.