Biotinylated Human GLP-1R Protein-Nanodisc

Cat. No. GLP-HM4N185BF

Description

Source	Recombinant Biotinylated Human GLP-1R Protein-Nanodisc is expressed from HEK293 with His tag and Avi tag at the C-terminus (FITC-equivalent protein is fused on cytoplasmic part).
	It contains Met1-Ser463.
Accession	P43220
Molecular Weight	The protein has a predicted MW of 85.8 kDa.
Endotoxin	Less than 1 EU per μg by the LAL method.

Formulation and Storage

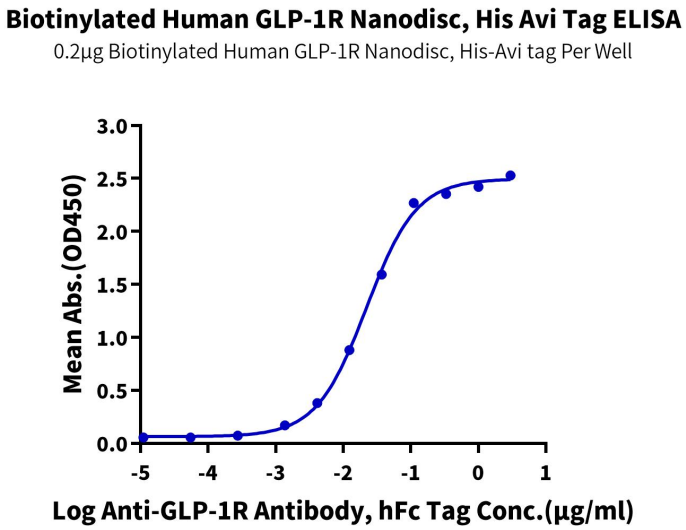
Formulation	Supplied as 0.22 μm filtered solution in PBS, 200mM L-Arginine (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.
Storage	Valid for 6 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Glucagon-like peptide-1 receptor (GLP-1R) is a critical therapeutic target for type 2 diabetes mellitus (T2DM). GLP-1R emerged as an important pharmacological target for addressing T2DM, as it actively contributes to maintaining glucose homeostasis while promoting both β cell proliferation and insulin release. The impact of GLP-1R agonists such as semaglutide extends beyond diabetes control: they play a multifaceted role in regulating blood glucose levels by reducing hunger, moderating food intake, and managing body weight. Notably, GLP-1R agonists inhibit cancer progression in some malignant tumors.

Assay Data

ELISA Data



Immobilized Biotinylated Human GLP-1R Nanodisc, His-Avi Tag at 2μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml). Dose response curve for Anti-GLP-1R Antibody, hFc Tag with the EC50 of 22.1ng/ml determined by ELISA.