Human NPC2 Protein

Cat. No. NPC-HM102

Description

Source	Recombinant Human NPC2 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Glu20-Leu151.
Accession	P61916-1
Molecular Weight	The protein has a predicted MW of 15.67 kDa. Due to glycosylation, the protein migrates to 21-24 kDa and 27-35 kDa kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

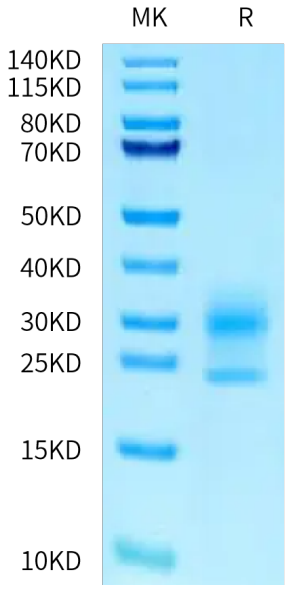
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The Niemann Pick type C (NPC) proteins, NPC1 and NPC2, are involved in the lysosomal storage disease, NPC disease. The formation of a NPC1NPC2 proteinprotein complex is believed to be necessary for the transfer of cholesterol and lipids out of the late endosomal (LE)/lysosomal (Lys) compartments. Mutations in either NPC1 or NPC2 can lead to an accumulation of cholesterol and lipids in the LE/Lys, the primary phenotype of the NPC disease.

Assay Data

Bis-Tris PAGE



Human NPC2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.