Biotinylated Human Her4/ErbB4 Protein

Cat. No. HER-HM4B4B

Description

Source	Recombinant Biotinylated Human Her4/ErbB4 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Gln26-Pro651.
Accession	Q15303-1
Molecular Weight	The protein has a predicted MW of 72.7 kDa. Due to glycosylation, the protein migrates to 75-110 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
	> 95% as determined by HPLC

Formulation and Storage

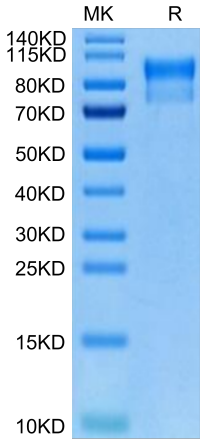
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled 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

Her4, a member of the EGF receptor family, plays a variety of roles in physiological and pathological states. Genetic studies have indicated a link between Her4 and type 2 diabetes and obesity. Her4 may play an important role in glucose homeostasis and lipogenesis. Her4 deficiency-related obesity and adipose tissue inflammation may contribute to the development of MetS.

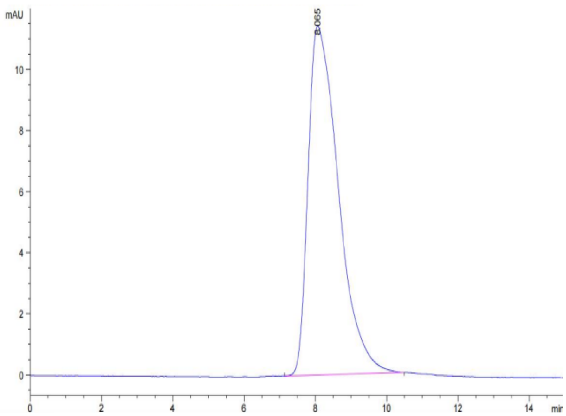
Assay Data

Bis-Tris PAGE



Biotinylated Human Her4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human Her4 is greater than 95% as determined by SEC-HPLC.

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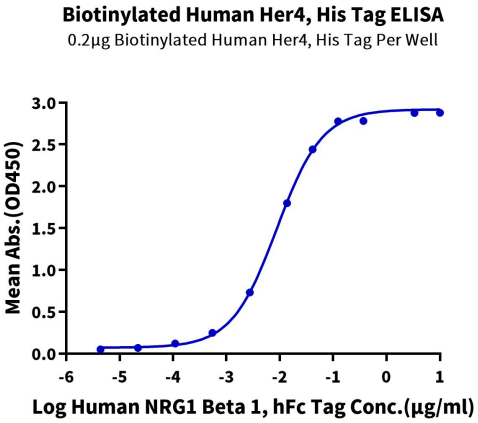
Assay Data

ELISA Data



Immobilized Biotinylated Human Her4, His Tag at 2μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml). Dose response curve for Human NRG1 Beta 1, hFc Tag with the EC50 of 8.8ng/ml determined by ELISA.