

Human Her4/ErbB4 Protein

Cat. No. HER-HM204

Description

Source	Recombinant Human Her4/ErbB4 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln26-Pro651.
Accession	Q15303-1
Molecular Weight	The protein has a predicted MW of 96.6 kDa. Due to glycosylation, the protein migrates to 100-120 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 24 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

ErbB4, a member of the EGF receptor family, plays a variety of roles in physiological and pathological states. Genetic studies have indicated a link between ErbB4 and type 2 diabetes and obesity. ErbB4 may play an important role in glucose homeostasis and lipogenesis. ErbB4 deficiency-related obesity and adipose tissue inflammation may contribute to the development of MetS.

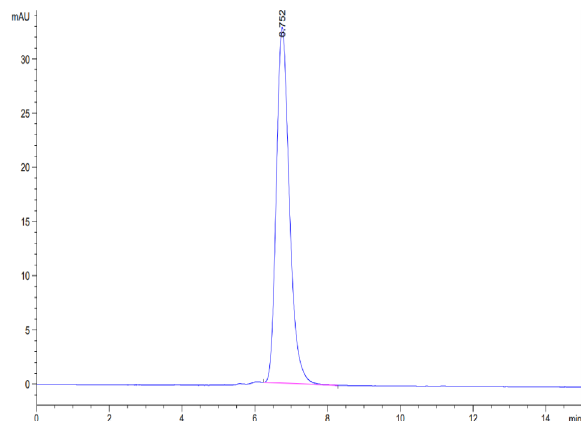
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



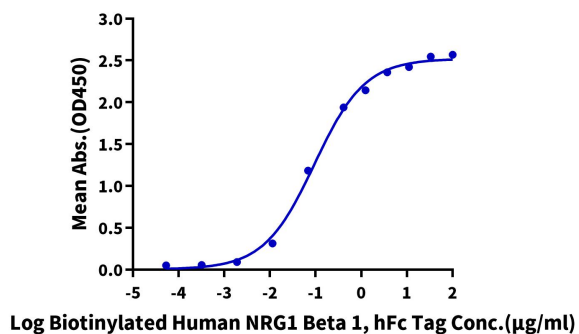
The purity of Human Her4 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human ErbB4, hFc Tag ELISA

0.5µg Human ErbB4, hFc Tag Per Well



Immobilized Human Her4, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human NRG1 Beta 1, hFc Tag with the EC50 of 94.6ng/ml determined by ELISA.