

HER3/ERBB3 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	HER3;p180-ErbB3;p45-sErbB3;LCCS2;c-erbB-3;MDA-BF-1;ErbB-3;EEBB3;c-erbB3;erbB3-S;erb-b2 receptor tyrosine kinase 3;p85-sErbB3
Protein Construction:	Ser20-Thr643
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P21860-1
Molecular Weight:	70.27 kDa (Predicted); 90-110 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human Her3, His Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Human NRG1 Beta 1, hFc Tag with the EC50 of 26.9 ng/ml determined by ELISA. Immobilized Human Her3, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-HER3 Antibody, hFc Tag with the EC50 of 3.2 ng/ml determined by ELISA.
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Her3, also called ErbB3, is a type I membrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors. Her3 is expressed in keratinocytes, melanocytes, skeletal muscle cells, embryonic myoblasts and Schwann cells. Monomeric Her3 serves as a low affinity receptor for the heregulins (HRG).

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