Recombinant Human ErbB4/HER4 Protein (His Tag)

Catalog Number: PDEH100939

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

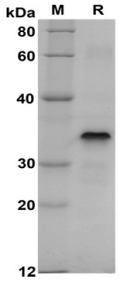
Description

Species	Human
Source	E.coli-derived Human ErbB4 protein Gln26-Thr284, with an N-terminal His
Calculated MW	28.4 kDa
Observed MW	35 kDa
Accession	Q15303
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human ErbB4/HER4 proteins, 2 μg/lane of Recombinant Human ErbB4/HER4 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 35 kDa.

Background

Toll-free: 1-888-852-8623
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ErbB4 is a type I membrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors. ErbB family members serve as receptors for the epidermal growth factor (EGF) family of growth factors. ErbB4 is expressed in normal skeletal muscle,heart, pituitary, brain and several breast carcinomas. ErbB4 ligands include the neuregulins, beta-cellulin and heparin-binding EGFlike growth factor (HBEGF). Monomeric ErbB4 binds its ligands with low affinity. Several ErbB4 isoforms exist. Two of these differ in the presence of juxtamembrane extracellular sequences which regulate the ability of TACE (TNFα converting enzyme) to proteolytically cleave ErbB4 from the cell surface. These isoforms exhibit tissuespecific expression. Another isoform lacks the phosphoinositide 3kinase activation sequence present in the ErbB4 cytoplasmic domain. ErbB4 appears to play important roles in neuronal development, development of the heart and cancer.

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