

## 37-1220: Human HER4 / ErbB4 Recombinant Protein (His & Fc Tag)(Discontinued)

**Reactivity :** Human

**Alternative Name :** ALS19 Protein, HER4 Protein, p180erbB4 Protein,

### Description

#### Source : HEK293 Cells

ERBB4 is a single-pass type I membrane protein with multiple cysteine rich domains, a transmembrane domain, a tyrosine kinase domain, a phosphatidylinositol-3 kinase binding site and a PDZ domain binding motif. ERBB4 is expressed at highest levels in brain, heart, kidney, in addition to skeletal muscle, parathyroid, cerebellum, pituitary, spleen, testis and breast. And lower levels in thymus, lung, salivary gland, and pancreas. It specifically binds to and is activated by neuregulins, NRG-2, NRG-3, heparin-binding EGF-like growth factor, betacellulin and NTAK. ERBB4 also can be activated by other factors and induces a variety of cellular responses including mitogenesis and differentiation. ERBB4 regulates development of the heart, the central nervous system and the mammary gland, gene transcription, cell proliferation, differentiation, migration and apoptosis. It is required for normal cardiac muscle differentiation during embryonic development, and for postnatal cardiomyocyte proliferation. ERBB4 also play a role on the normal development of the embryonic central nervous system, especially for normal neural crest cell migration and normal axon guidance. It is required for mammary gland differentiation, induction of milk proteins and lactation. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

### Product Info

**Amount :** Human HER4 / ErbB4 Recombinant Protein (His & Fc Tag)(Discontinued) / 100 µg

**Purification :** > 95 % as determined by SDS-PAGE

**Content :** Formulation Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Storage condition :** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Amino Acid :** Met1-Pro651

### Application Note

1. Measured by its ability to bind biotinylated human Fc-NRG1 (isoform Beta 1) in a functional ELISA. 2. Measured by its ability to bind with biotinylated human NRG1 (isoform Beta 1) in a functional ELISA. 3. Measured by its ability to bind with biotinylated human NRG1 (aa 2-246)-Fc in a functional ELISA. 4. Measured by its ability to bind with biotinylated human NRG1 (aa 20-241)-His in a functional ELISA.

Endotoxin :< 1.0 EU per µg of the protein as determined by the LAL method

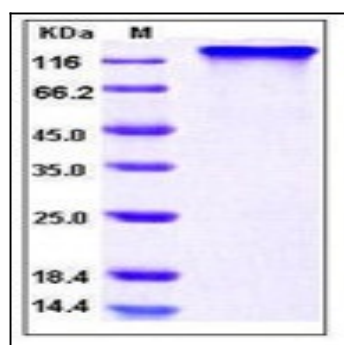


Fig 1: Human HER4 / ErbB4 Recombinant Protein (His & Fc Tag)