

ERBB3

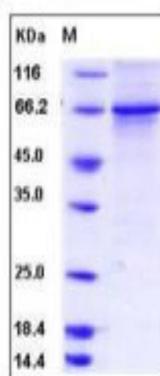
Recombinant Human HER3 / ErbB3 (aa 730-1065, His & GST Tag)

Catalog No.	CRH410A-HisGST CRH410B-HisGST	Quantity:	20 µg 50 µg
Alternate Names:	Receptor tyrosine-protein kinase erbB-3, Proto-oncogene-like protein c-ErbB-3, Tyrosine kinase-type cell surface receptor HER3		
Description:	ErbB3, also known as Her3(human epidermal growth factor receptor3), is a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound glycoprotein has a neuregulin binding domain but has not an active kinase domain., and therefore can not mediate the intracellular signal transduction through protein phosphorylation. However, its heterodimer with ErbB2 or other EGFR members responsible for tyrosine phosphorylation forms a receptor complex with high affinity, and initiates the related pathway which lead to cell proliferation or differentiation. ErbB3 has been shown to implicated in numerous cancers, including prostate, bladder, and breast tumors. This protein has different isoforms derived from alternative splicing variants, and among which, the secreted isoform lacking the intermembrane region modulates the activity of membrane-bound form.		
UniProt ID:	P21860		
Accession Number:	NP_001973.2		
Protein Construction:	A DNA sequence encoding the cytoplasmic domain (Pro 730-Ser 1065) of human ErbB3 (NP_001973.2) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.		
Source:	Baculovirus-Insect Cells		
Molecular Weight:	The recombinant human ErbB3 /GST chimera consists of 573 amino acids and has a calculated molecular mass of 65 KDa. It migrates as an approximately 65 KDa band as predicted in SDS-PAGE under reducing conditions.		
Formulation:	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 7.5, 10% gly, 1mM GSH Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Purity:	> 75 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	1. No Kinase Activity 2. Using the Octet RED System, the affinity constant (Kd) of human ErBB3-GST bound to human NRG1 (aa 2-224) was 20 nM.		
Predicted N-terminal:	Met		

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

SDS-PAGE



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