

**ERBB3, 20-643aa, Human, His tag, Insect cell**

**Cat.NO.: TP02040**

3th Edition

**Synonyms:** Receptor tyrosine-protein kinase erbB-3 isoform, c-erbB-3, ErbB-3, erbB3-S, HER3, LCCS2, MDA-BF-1, p180-ErbB3, p45-sErbB3, p85-sErbB3

**Description:** ERBB3, also known as receptor tyrosine-protein kinase erbB-3, is a member of the epidermal growth factor receptor (EGFR/ERBB) family of receptor tyrosine kinases. ErbB3 has been shown to bind the ligands heregulin and NRG-2. Ligand binding causes a change in conformation that allows for dimerization, phosphorylation, and activation of signal transduction. ErbB3 can heterodimerize with any of the other three ErbB family members. The theoretical ErbB3 homodimer would be non-functional because the kinase-impaired protein requires transphosphorylation by its binding partner to be active. Recombinant human ERBB3, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:** Liquid. In phosphate buffered saline (pH7.4) containing 10% glycerol.

**Molecular Weight:** 95.6kDa (863aa) (100-150kDa in SDS-PAGE under reducing conditions.)

**Sequences:**

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SEVGNSQAVCPGTLNGLSVTGDAENQYQTLTKLYERCEVVMGNLEIVLTGHNADLSFLQWIREVTGYVLVAMNEF
STLPLPNLRVVRGTQVYDYGKFAIFVMLNYNTNSSHALRQLRLTQLTEILSGGVYIEKNDKLCHMDTIDWRDIVRDRD
AEIVVKDNGRSCPPCHEVCKGRCWGPSEDQTLTKTICAPQCNGHCFGNPNQCCHECAGGCSGPQDTCDF
ACRHFNDSGACVPRCPQLVYNKLTFLQLEPNPHTKYQYGGVCVASCPHNFVVDQTSVVRACPPDKMEVDKNGLK
MCEPCGGLCPKACEGTGSGSRFQTVDSNIDGFVNCTKILGNLDFLITGLNGDPWHKIPALDPEKLNVFRTVREITG
YLNISWPPHMHNFVFSNLTTIGGRSLYNRGSLLIMKLNVTSLGFRSLKEISAGRIYISANRQLCYHHSLNWTKV
LRGPTTEERLDIKHNRPRRDCVAEGKVCPLCSSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEPREFAHE
AECFSCHPECQPMEGTATCNGSGSDTCAQCAHFRDGPVSSCPHGVLGAKGPIYKYPDVQNECRPCHENCTQ
GCKGPELQDCLGQTLVLIGKTHLTRSPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVVS
HEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQ
PREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSSFFLYSKLTVDKSRW
QQGNVFSCSVMHEALHNHYTQKSLSLSPGKHHHHHH
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**Purity:** > 95% by HPLC

**Concentration:** 0.25mg/ml (determined by absorbance at 280nm)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.