

Recombinant ErbB3 / HER3 (665-1342) protein

Catalog No: 82026, 82626

Expressed In: Baculovirus

Quantity: 20, 1000 µg

Source: Human

Buffer Contents: Recombinant ErbB3 / HER3 (665-1342) protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.

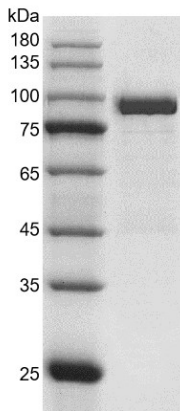
Background: ErbB3 (Receptor tyrosine-protein kinase erbB-3) is a tyrosine-protein kinase that plays an essential role as cell surface receptor for neuregulins. Binds to neuregulin-1 (NRG1) and is activated by it; ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase. May also be activated by CSPG5. Involved in the regulation of myeloid cell differentiation.

Protein Details: Recombinant ErbB3 / HER3 (665-1342) protein that includes amino acids 665-1342 of human ErbB3 protein (accession number NP_001973.2) was expressed in a baculovirus expression system and contains an N-terminal FLAG tag. The molecular weight of the protein is 76.52 kDa.

Application Notes: This product was manufactured as described in Protein Details. Where possible, Active Motif has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for this product is shown.

Storage and Guarantee: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. This product is for research use only and is not for use in diagnostic procedures. This product is guaranteed for 6 months from date of arrival.

ErbB3 (665-1342)



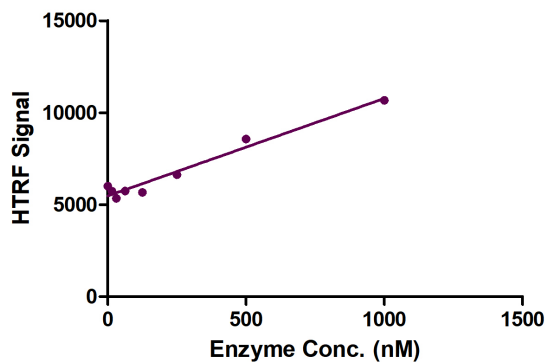
Recombinant ErbB3 / HER3 (665-1342) protein

10% SDS-PAGE Coomassie staining

MW: 76.52 kDa

Purity: >95%

ErbB3 / HER3 (665-1342) Titration



HTRF assay for ErbB3 / HER3 (665-1342) activity

1 μ M TK substrate was incubated with different concentrations of ErbB3 (665-1342) protein in 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT, 1 mM MnCl₂, 5 nM SEB and 100 μ M ATP for 1 hour. Then 10 μ l detection reagents containing anti-TK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$ Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.