Data Sheet (Cat.No.TMPJ-00413)

TargetMol

HER3/ERBB3 Protein, Human, Recombinant (aa 20-643, His & Avi), Biotinylated

General Information

Synonyms:	Proto-oncogene-like protein c-ErbB-3;HER3;ERBB3;Tyrosine kinase-type cell surface receptor HER3
Protein Construction:	Ser20-Thr643
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P21860
Molecular Weight:	90-120 KDa (reducing condition)
AA Sequence:	Ser20-Thr643

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Receptor tyrosine-protein kinase erbB-3 is an enzyme that in humans is encoded by the ERBB3 gene. This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. ERBB3 belongs to the protein kinase superfamily,tyr protein kinase family and EGF receptor subfamily.It contains 1 protein kinase domain and it is expressed in Epithelial tissues and brain. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the

signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity.

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