

Human HER3 Protein; hFc Tag

Product Information

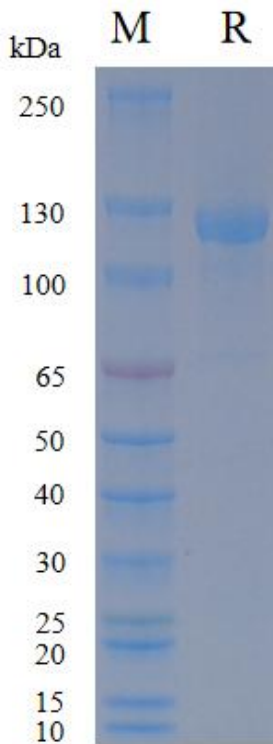
Product Name	Human HER3 Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-87577RP-100 / 100 μg GM-87577RP-1000 / 1 mg

Protein Information

Alternative Names	ERBB3, HER3, LCCS2, MDA-BF-1, MGC88033, c-erbB3, erbB3-S, p180-ErbB3, p45-sErbB3, p85-sErbB3
Source	Human HER3 Protein; hFc Tag (GM-87577RP) is expressed from human 293 cells (HEK-293). It contains AA Ser 20 - Thr 643 (Accession # NP_001973.2). This protein carries a hFc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	94.6 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	<p>HER3 protein, the full name of which is Human Epidermal Growth Factor Receptor 3, is a member of the receptor tyrosine kinase (RTK) family and is involved in biological processes such as cell growth, proliferation, and differentiation. The HER3 protein is encoded by the ERBB3 gene and is part of the EGFR family, which includes EGFR (HER1), HER2, and HER4. Unlike other members of the EGFR family, HER3 protein has weak kinase activity itself and usually needs to form a dimer with other members to activate downstream signaling pathways.</p> <p>HER3 protein plays an important role in various cancers, including breast cancer, ovarian cancer, gastric cancer, and colorectal cancer. It is considered an important target for cancer treatment because overexpression or abnormal activation of HER3 is associated with tumor development and treatment resistance. Antibodies and inhibitors targeting HER3 have been developed and have shown some therapeutic effects in clinical trials.</p> <p>Overall, HER3 protein is an important cell signaling molecule with potential importance in cancer research and treatment.</p>

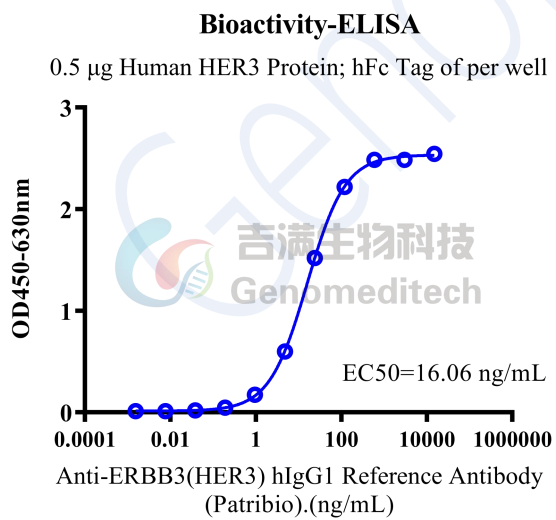
Version:4.0

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human HER3 Protein; hFc Tag (Catalog # GM-87577RP) was immobilized at 5 $\mu\text{g}/\text{ml}$ (100 $\mu\text{L}/\text{well}$). Increasing concentrations of Anti-ERBB3(HER3) hIgG1 Reference Antibody (Patribio) (Catalog # GM-87129MAB) were added.