

Recombinant Rat ErbB3 Protein, C-hFc-tagged

Product Information

Cat	IMP-4557
Official Symbol	ErbB3
Product Overview	Recombinant rat ERBB3 (Q62799) (Met1-His641) was expressed, fused with the Fc region of human IgG1 at the C-terminus.
Description	<p><i>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.</i></p>
Expression System	HEK293
Species	Rat
Tag	C-hFc
Predicted N Terminal	Ser 20
Form	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.
Molecular Mass	<p><i>The recombinant rat ERBB3/Fc is a disulfide-linked homodimer. The reduced monomer comprises 863 amino acids and has a predicted molecular mass of 95.5 kDa. The apparent molecular mass of the protein is approximately 115 kDa in SDS-PAGE under reducing conditions.</i></p>
Protein length	Met1-His641
Endotoxin	< 1.0 EU/μg of the protein as determined by the LAL method
Purity	> 80 % as determined by SDS-PAGE
Storage	<p><i>Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</i></p>

Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

SDS-PAGE

