HER4 (R927Q) Recombinant Protein | HER4 recombinant protein

HER4 (R927Q), Active

CATALOG #	HOST	APPLICATIONS
AAA73527	**Sf9 insect cells**	**Kinase Assay**

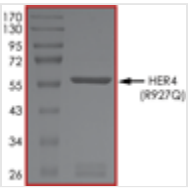
PRODUCT SYNONYMS

HER4 (R927Q); Active; ERBB4; MGC138404; p180erbB4; HER4 recombinant protein

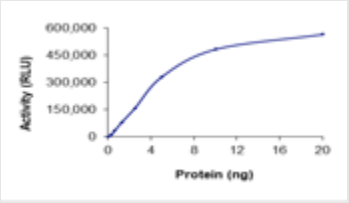
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Applicable Applications for HER4 recombinant protein	Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity
Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for HER4 recombinant protein	Recombinant human HER4 (R927Q)(682-993) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_005235. HER4 or ERBB4 is a transmembrane receptor tyrosine kinase that belongs to epidermal growth factor receptor family (1). Through its interaction with its activating ligand heregulin, HER4 can regulate proliferation and differentiation of cells (2). HER4 ectodomain is cleaved by a metalloprotease, gamma-secretase that releases the HER4 intracellular domain from the membrane and facilitates its translocation to the nucleus. The kinase activity of HER4 is both necessary and sufficient to trigger an antiproliferative response in human breast cancer cells. Increased expression of HER4 has been detected in various cancers and this usually correlates to better survival.
Product Categories/Family for HER4 recombinant protein	Mutant Kinases; AKT/PKB Pathway; Cancer; ERK/MAPK Pathway; Receptor Tyrosine Kinases

References	1. Carolyn, I. et al: HER4 Mediates Ligand-Dependent Antiproliferative and Differentiation Responses in Human Breast Cancer Cells. Mol.Cellular Biol., 2001, 21: 4265-4275. 2. Jorma, A. et al: Proteolytic Cleavage and Phosphorylation of a Tumor-associated ErbB4 Isoform Promote Ligand-independent Survival and Cancer Cell Growth. MolBiolCell, 2006; 17, 1: 67-79.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_005235
Molecular Weight	57kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/her4-r927q-recombinant-protein-sf9-insect-cells-kinase-assay/73527