Recombinant Human HER2/ErbB2 Protein (Fc Tag)

Catalog No. PKSH032989

Note: Centrifuge before opening to ensure complete recovery of vial contents.

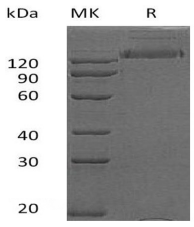
Description

Synonyms	Receptor tyrosine-protein kinase erbB-2;Metastatic lymph node gene 19 protein;Proto-oncogene Neu;Tyrosine kinase-type cell surface receptor HER2;ERB B2;MLN19;NGL;TKR1;CD340;ENV;ENVW;ERVWE1;HER-2;HER-2/neu;HER2; HERV-7q;HERV-W-ENV;HERV7Q;HERVW;HERVWENV;MLN 19;TKR1
Species	Human
Expression Host	HEK293 Cells
Sequence	Thr 23-Thr652
Accession	P04626
Calculated Molecular Weight	96.5 kDa
Observed molecular weight	120-145 kDa
Tag	C-Fc
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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Background

Human epidermal growth factor receptor 2 (HER2) is a type of membrane glycoprotein; and belongs to the epidermal growth factor (EGF) receptor family. HER2 plays a key role in development; cell proliferation and differentiation. HER2 has been reported to associate with malignancy and a poor prognosis in numerous carcinomas; including breast; prostate; ovarian; lung cancers and so on. HER2 is activated by dimerization and not activated by EGF; TGF-alpha and amphiregulin. Interaction with PTK6 increases its intrinsic kinase activity.It is heterodimer with EGFR; ERBB3 and ERBB4. HER2 associates with the 5'-TCAAATTC-3' sequence in the PTGS2/COX-2 promoter and activates its transcription. It implicated in transcriptional activation of CDKN1A and the function of the protein involves STAT3 and SRC. And also it involved in the transcription of rRNA genes by RNA Pol I and enhances protein synthesis and cell growth.

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