Proteins



HER2/CD340 Protein, Human (630a.a, HEK293, Fc)

Cat. No.: HY-P70759

Synonyms: Receptor tyrosine-protein kinase erbB-2; Metastatic lymph node gene 19 protein; Proto-

oncogene Neu; Tyrosine kinase-type cell surface receptor HER2; ERBB2; MLN19; NGL; TKR1

Species: Human Source: HEK293

Accession: P04626 (T23-T652)

Gene ID: 2064

Molecular Weight: 120-145 kDa

PROPERTIES

AA Sequence TQVCTGTDMK LRLPASPETH LDMLRHLYQG CQVVQGNLEL TYLPTNASLS FLQDIQEVQG YVLIAHNQVR QVPLQRLRIV RGTQLFEDNY ALAVLDNGDP LNNTTPVTGA SPGGLRELQL RSLTEILKGG VLIQRNPQLC YQDTILWKDI FHKNNQLALT	
TYLPTNASLS FLQDIQEVQG YVLIAHNQVR QVPLQRLRIV RGTQLFEDNY ALAVLDNGDP LNNTTPVTGA SPGGLRELQL	
RGTQLFEDNY ALAVLDNGDP LNNTTPVTGA SPGGLRELQL	
RSLTEILKGG VLIQRNPOLC YODTILWKDI FHKNNOLALT	
LIDTNRSRAC HPCSPMCKGS RCWGESSEDC QSLTRTVCAG	
GCARCKGPLP TDCCHEQCAA GCTGPKHSDC LACLHFNHSG	
ICELHCPALV TYNTDTFESM PNPEGRYTFG ASCVTACPYN	
YLSTDVGSCT LVCPLHNQEV TAEDGTQRCE KCSKPCARVC	
YGLGMEHLRE VRAVTSANIQ EFAGCKKIFG SLAFLPESFD	
GDPASNTAPL QPEQLQVFET LEEITGYLYI SAWPDSLPDL	
SVFQNLQVIR GRILHNGAYS LTLQGLGISW LGLRSLRELG	
SGLALIHHNT HLCFVHTVPW DQLFRNPHQA LLHTANRPED	
ECVGEGLACH QLCARGHCWG PGPTQCVNCS QFLRGQECVE	
ECRVLQGLPR EYVNARHCLP CHPECQPQNG SVTCFGPEAD	
QCVACAHYKD PPFCVARCPS GVKPDLSYMP IWKFPDEEGA	
CQPCPINCTH SCVDLDDKGC PAEQRASPLT	
Distance Assists.	
Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.	
Appearance Lyophilized powder.	
Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.	
Endotoxin Level <1 EU/μg, determined by LAL method.	
Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is	
recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	
Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It	ic
recommended to freeze aliquots at -20°C or -80°C for extended storage.	13

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Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

HER2/CD340 Protein, a dynamic protein tyrosine kinase, stands as a pivotal component within diverse cell surface receptor complexes, requiring a coreceptor for efficient ligand binding. Crucially, it plays an indispensable role as part of the neuregulin-receptor complex, with GP30 identified as a potential ligand for this receptor. Beyond its receptor functions, HER2/CD340 Protein intricately regulates the outgrowth and stabilization of peripheral microtubules (MTs). Upon activation, the MEMO1-RHOA-DIAPH1 signaling pathway, initiated by ERBB2 activation, orchestrates the phosphorylation and subsequent inhibition of GSK3B at the cell membrane. This strategic inhibition prevents the phosphorylation of APC and CLASP2, facilitating their association with the cell membrane. Notably, membrane-bound APC enables the localization of MACF1 to the cell membrane, a prerequisite for microtubule capture and stabilization. Within the nucleus, HER2/CD340 Protein is actively involved in transcriptional regulation, associating with the 5'-TCAAATTC-3' sequence in the PTGS2/COX-2 promoter to activate transcription. Furthermore, its engagement in the transcription of rRNA genes by RNA Pol I enhances protein synthesis, contributing to overall cell growth. The multifaceted activities of HER2/CD340 Protein underscore its central role in orchestrating diverse cellular processes, ranging from receptor signaling to microtubule dynamics and transcriptional regulation.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

 $\hbox{E-mail: } tech@MedChemExpress.com$

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA