

Product Data Sheet

HER2/CD340 Protein, Human (Biotinylated, 142a.a, HEK293, His-Avi)

| Cat. No.: | HY-P700643 |
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| Synonyms: | CD340; EGFR2; ErbB2; HER2; HER-2; herstatin; MLN 19; MLN19; Neu Oncogene; NEUHER-2/neu; NGL; p185erbB2; TKR1; ERBB2; HER-2/neu; NEU; ENV; ENVW; ERVWE1; HERV-7q; HERV-W-ENV; HERV7Q; HERVW; HERVWENV |
| Species: | Human |
| Source: | HEK293 |
| Accession: | P04626 (P489-C630) |
| Gene ID: | 2064 |
| Molecular Weight: | 28-40 kDa |

| PROPERTIES | |
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| TROPERTES | |
| 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 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconsititution | It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH_2O. |
| 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 is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | 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 |
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| | 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.

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