

## 32-8828: Recombinant Human Receptor Tyrosine-Protein Kinase ErbB-2/HER2 (C-6His)(Discontinued)

**Gene :** ERBB2  
**Gene ID :** 2064  
**Uniprot ID :** P04626

### Description

Source: Human cells.

MW :70.1kD.

Recombinant Human Receptor tyrosine-protein kinase ErbB-2 is produced by our Mammalian expression system and the target gene encoding Thr23-Thr652 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g  
**Content :** Lyophilized from a 0.2  $\mu$ m filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** TQVCTGTDMLRLPASPETHLDMLRHLYQGCQVVQGNLELYLPTNASLSFLQDIQEVQGYVLIAHNQVRQVP  
LQRLRIVRGTLQFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWK  
DIFHKNNQLALTIDTNRSRACHPCSPMCKGSRGWGESSEDCQSLTRTVCAAGGCARCKGPLPTDCCHEQCAA  
GCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACPYNYLSTDVGSCTLVCP  
LHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNT  
APLQPEQLQVFETLEEITGYLYISAWPDSLPLSVFQNLQVIRGRILHNGAYSLTLQGLGISWLGLRSLRELGSGL  
ALIIHNNTHLCFVHTVPWDQLFRNPQHALLHTANRPEDECVGEGGLACHQLCARGHCWGPGPTQCVNCSQFLR  
GQECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPFPCVARCPSPGVKPD  
LYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQASPLTHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.