

## Neuregulin-2/NRG2 Protein, Human (HEK293, His)

Cat. No.:	HY-P74682
Synonyms:	Pro-neuregulin-2; Pro-NRG2; Neuregulin-2; DON-1; NTAK; NRG-2
Species:	Human
Source:	HEK293
Accession:	O14511 (C112-K404)
Gene ID:	9542
Molecular Weight:	Approximately 34 kDa

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	Neuregulin-2 (NRG2) functions as a direct ligand for the tyrosine kinase receptors ERBB3 and ERBB4. Upon binding, NRG2 facilitates the recruitment of ERBB1 and ERBB2 coreceptors, leading to ligand-induced tyrosine phosphorylation and activation of the ERBB receptors. Additionally, NRG2 may promote heterodimerization with the EGF receptor. This intricate interaction with ERBB family members suggests a role for NRG2 in modulating diverse cellular processes through the activation of downstream signaling pathways. The binding and activation of ERBB receptors by NRG2 underscore its significance in cellular communication and signal transduction, highlighting its potential involvement in various physiological and developmental contexts.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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