

NRG1-beta 2 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P73745
Synonyms:	Pro-NRG1; Neuregulin-1; ARIA; HRG; NRG1
Species:	Human
Source:	HEK293
Accession:	NP_001153480 (S177-Q237)
Gene ID:	3084
Molecular Weight:	Approximately 35.5 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	NRG1-beta 2, a membrane glycoprotein, serves as a crucial mediator of cell-cell signaling and plays a pivotal role in the growth and development of various organ systems. The gene encoding NRG1-beta 2 generates an exceptional diversity of isoforms through alternative promoter usage and splicing, with distinct tissue-specific expression patterns. These isoforms, categorized as types I, II, III, IV, V, and VI, exhibit significant structural variations. Dysregulation of the NRG1-beta 2 gene has been implicated in various diseases, including cancer, schizophrenia, and bipolar disorder (BPD). The broad expression of NRG1-beta 2 is evident in diverse tissues such as the thyroid, urinary bladder, and 19 other tissues. Understanding the multifaceted functions and regulatory mechanisms of NRG1-beta 2 isoforms is crucial for unraveling their roles in physiological processes and disease pathogenesis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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