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Product Sheet

Human NRG1 Beta1(20-246) Protein; His Tag

GM-88947RP-100 / 100 μg
GM-88947RP-1000 / 1 mg

Product Information

Product Name	Human NRG1 Beta1(20-246) Protein; His Tag
Source	Human NRG1 Beta1(20-246) Protein; His Tag (GM-88947RP) is expressed from human 293 cells (HEK-293). It contains AA Ser 20 - Lys 246 (Accession # Q02297-6). This protein carries a His tag at the N-terminus.
Predicted MW	25.6 kDa
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Formulation	Liquid; Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Storage	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Shipping	Shipped on dry ice.
Synonyms	NRG1 Beta 1, HRG1 beta 1, Neuregulin-1 beta 1, Neuregulin1 beta 1, NRG1, ARIA, GGF, HGL, HRGA, NDF, SMDF
Background	Neuregulin-1 (NRG1) is a member of the neuregulin family of epidermal growth factor-like signaling ligands. Alternative promoters and splicing generate multiple isoforms synthesized as membrane-anchored precursors whose ectodomain carries the EGF-like domain required for receptor engagement. Shedding by ADAM proteases and BACE1 releases soluble NRG1, while the remaining fragment can undergo γ-secretase cleavage to yield a signaling intracellular domain. NRG1 binds the receptor tyrosine kinases ERBB3 and ERBB4, recruiting the orphan co-receptor ERBB2 into heterodimers that activate PI3K-AKT and MAPK cascades. These cascades govern neural development, myelination, cardiac trabeculation and neuromuscular junction formation; NRG1 variants confer schizophrenia susceptibility, and NRG1 gene fusions are oncogenic drivers in lung adenocarcinoma.

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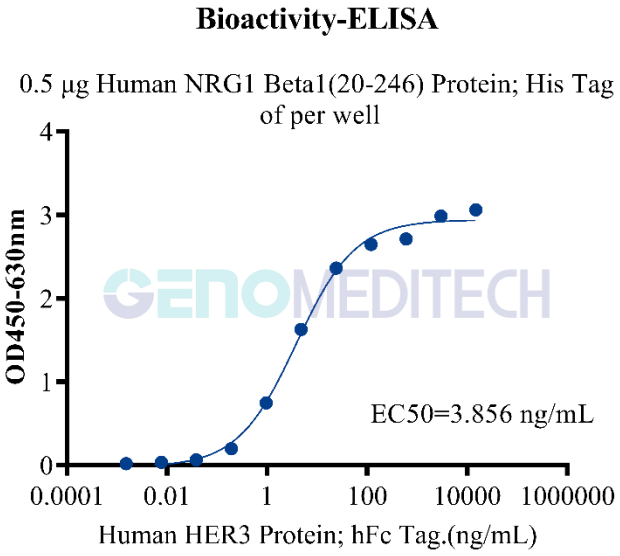
For research use only!

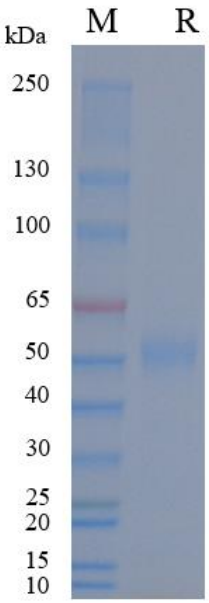
Data

Affinity



Human NRG1 Beta1(20-246) Protein; His Tag (Catalog # GM-88947RP) was immobilized at 5 μg/ml (100 μl/well). Increasing concentrations of Human HER3 Protein; hFc Tag (Catalog # GM-88210RP) were added.

Purity



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Related Products

HER4(ERBB4)	
Anti-HER4 hIgG1 Antibody(HE4B-27)	