

Recombinant Human GGF2

Cat No:HR2R1458

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	GGF2
Gene ID	3084
Accession	Q02297
Alternative Name	GGF2, Pro-neuregulin-1, membrane-bound isoform, Acetylcholine receptor-inducing activity, ARIA, Breast cancer cell differentiation factor p45, Glial growth factor, Heregulin, HRG, Neu differentiation factor, Sensory and motor neuron-derived factor Recombinant Human Glial Growth Factor (GGF2)
Species	Human
Source	E. coli
Description	Neuregulins (NDF, heregulin, GGF ARIA, or SMDF) are EGF-like growth and differentiation factors that signal through tyrosine kinase receptors of the ErbB family. The ErbB2 and ErbB4 receptors cooperate in transmission of neuregulin-1 signals in the heart, whereas ErbB2 and ErbB3 cooperate in neural crest cells.
Functions	The ED(50) was determined by the dose-dependent phosphorylation of human MCF-7 cells was found to be $\leq 20 \text{ ng/mL}$, corresponding to a specific activity of $5.0 \times 10^4 \text{ Units/mg}</math>.$
Formulation	Recombinant GGF2 was lyophilized from a 0.2 ?m filtered 0.02M PB, pH 7.0.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	34
Purity	>95% as determined by SDS-PAGE
Concentration	<math><1.0 \text{ EU/?g}</math> of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at $-70^{\circ}\text{C}</math>. Upon reconstitution, this cytokine can be stored in working aliquots at 2^{\circ} - 8^{\circ}\text{C}</math> for one month, or at -20^{\circ}\text{C}</math> for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.$