

Product Name	Recombinant Human Neuregulin-1/Heregulin-B2	Product Datasheet
Cata No	CB500309	
Source	Escherichia Coli.	
Synonyms	Neuregulin-1, NRG1, GGF, HGL, HRGA, NDF, SMDF	, HRG, ARIA, GGF2, HRG1.

Description

Neuregulin is a signaling protein for ErbB2/ErbB4 receptor heterodimers on the cardiac muscle cells, playing an important role in heart structure and function through inducing ErbB2/ErbB4 receptor phosphorylation and cardiomyocyte differentiation. Research on molecular level discovered that neuregulin recombinant could make disturbed myocardial cell structure into order and strengthen the connection between myocardial cells by intercalated discs re-organization.

Pharmacodynamic experiments in animals showed that neuregulin (NRG1) recombinant can reduce the degree of damage on myocardial cells caused by ischemia, hypoxia and viral infection. Recombinant Human Neuregulin-1 beta 2 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 61 amino acids and having a total molecular mass of 7055 Dalton.

NRG-1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2µm filtered solution (0.25mg/ml) in 20mM PB, pH 7.0, containing 0.5%HSA and 2% mannitol.

Solubility

It is recommended to reconstitute the lyophilized GDF15 in sterile $18M\Omega$ -cm H2O not less than 100μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized MIC1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Heregulin should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Biological Activity

The ED50, calculated by the dose-dependant stimulation of human MCF-7 cells is < 0.5ng/ml, corresponding to a specific activity of > 2 x 10^{6} units/mg