Tel:240-252-7368(USA)
Fax:240-252-7376(USA)
www.elabscience.com
E-mail:techsupport@elabscience.com
Elabscience Biotechnology Inc.

Elabscience®

Recombinant Human β-NGF/NGFB Protein (aa 122-239, Human Cells)(Active)

Catalog No. PKSH033270

Description

Synonyms	Beta-Nerve Growth Factor, Beta-NGF, NGF, NGFB
Species	Human
Expression_host	HEK293 Cells
Sequence	Ser122-Arg239
Accession	P01138
Mol_Mass	13.5 kDa
AP_Mol_Mass	15 kDa
Tag	None
Bio_activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.04-0.4 ng/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 250mM NaCl, pH 7.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed man
Reconstitution	Please refer to the printed manual for detailed information.

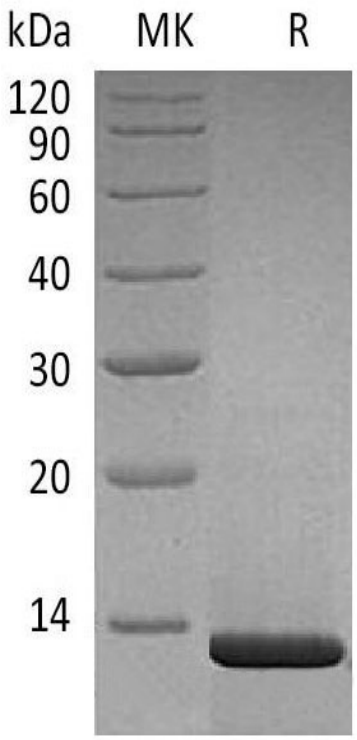
Background

Human β-Nerve Growth Factor (β-NGF) was initially isolated in the mouse submandibular gland. It is composed of three non-covalently linked subunits α; β; and γ; it exhibits all the biological activities ascribed to NGF. It is structurally related to BDNF; NT-3 and NT-4 and belongs to the cysteine-knot family of growth factors that assume stable dimeric structures. B-NGF is a neurotrophic factor that signals through its receptor β-NGF; and plays a crucial role in the development and preservation of the sensory and sympathetic nervous systems. B-NGF also acts as a growth and differentiation factor for B lymphocytes and enhances B-cell survival. These results suggest that β-NGF is a pleiotropic cytokine; which in addition to its neurotropic activities may have an important role in the regulation of the immune system. Human β-NGF shares 90% sequence similarity with mouse protein and shows cross-species reactivity.

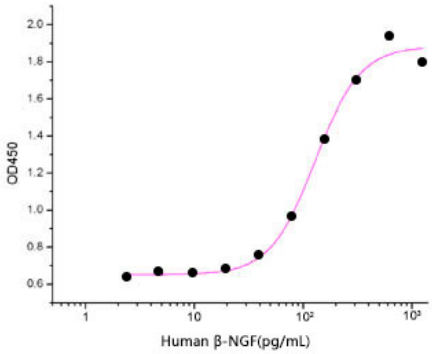
Tel:240-252-7368(USA)
Fax:240-252-7376(USA)
www.elabscience.com
E-mail:techsupport@elabscience.com
Elabscience Biotechnology Inc.

Elabscience®

SDS-PAGE



Bioactivity



0