

Recombinant Human/Murine/Rat/Canine/Equine Brain-derived Neurotrophic Factor

Information

Gene ID	
Accession #	
Alternate Names	
Source	Spodoptera frugiperda, Sf 21 (baculovirus)
M.Wt	Apparent molecular mass of 13-14 kDa in SDS-PAGE under reducing conditions, a single glycosylated polypeptide protein consisting of 119 amino acids.
AA Sequence	His129-Arg247; Accession # P23560
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70°C as supplied. - 1 month, 2 to 8°C under sterile conditions after reconstitution. - 3 months, -20 to -70°C under sterile conditions after reconstitution.
Formulation	Lyophilized from 0.2 µm filtered concentrated solution in 100 mM Sodium Citrate and 300 mM NaCl, pH 3.0.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile PBS to a concentration of 0.1 mg/mL. Further dilutions should be made in appropriately buffered solutions.
Biological Activity	Measured in a cell proliferation assay using BaF mouse pro-B cells transfected with TrkB. The ED ₅₀ for this effect is 0.2-2 ng/mL. The specific activity of rHu/Mu/Rt/Ca/EqBDNF is approximately 1.3 × 10 ³ units/µg, which is calibrated against recombinant human BDNF WHO Standard. Measured by its binding ability in a functional ELISA. When Recombinant Human TrkB Fc Chimera is coated at 1 µg/mL, rHu/Mu/Rt/Ca/EqBDNF binds with an apparent Kd <1 nM.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10 µg	100 µg
Recombinant Human/Murine/Rat/Canine/Equine Brain-derived Neurotrophic Factor	5 µg	100 µg

Use a manual defrost freezer and avoid repeated freeze-thaw cycles

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 97 % by SDS-PAGE analyses.
Endotoxin	Less than 0.1 EU/μg of rHu/Mu/Rt/Ca/EqBDNF as determined by LAL method.

Description

脑源性神经营养因子（BDNF）是神经营养因子（也称为神经营养因子）的 NGF 家族的成员，是中枢和周围神经系统中特定神经元亚群分化和存活所必需的。神经营养因子家族由至少四种蛋白质组成，包括 NGF、BDNF、NT-3 和 NT-4/5。这些分泌的细胞因子被合成为前肽，经过蛋白水解处理以产生成熟蛋白质。所有神经营养因子都有六个保守的半胱氨酸残基，它们参与三个二硫键的形成，并且在氨基酸水平上都具有大约 55% 的序列同一性。与NGF类似，生物活性BDNF被预测为非共价连接的同源二聚体。

Reference

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

