
Product Data Sheet

Product Name: BDNF Mouse
 Cat. No.: GP20088
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GP145-TrkB/GP95-TrkB; Trk-B; Neurotrophic tyrosine kinase receptor type 2; TrkB; tyrosine kinase; Ntrk2; Trkb; BDNF/NT-3 growth factors receptor.		
Amino Acid Sequence	<p>CPTSCCKCSSARIWCTEPSPG IVAFPRLEPN SVDPENITEI LIANQKRLEI INEDDVEAYV GLRNLTIVDS GLKFVAYKAFLKNSNLRHIN FTRNKLTSL RRHFRHLDLS DLILTGNPFT CSCDIMWLKT LQETKSSPDT QDLYCLNESSKNMPLANLQI PNCGLPSARL AAPNLVVEEG KSVTLSCSVG GDPLPTLYWD VGNLVSKHMN ETSHTQGLRITNISSDDSG KQISCVAENL VGEDQDSVNL TVHFAPTITF LESPTSDHHW CIPFTVRGNP KPALQWFYNGAILNESKYIC TKIHVTNHT EYHGCLQLDNP THMNNGDYTL MAKNEYGKDE RQISAHFMGR PGVDYETNP NYPEVLYEDWT TPTDIGDTTN KSNEIPSTDV ADQSNREHAA ALEHHHHHH.</p>		
Formulation	BDNF protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

BDNF promotes the survival of neuronal populations that are all located either in the central nervous system or directly connected to it. BDNF is a major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

BDNF produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 409 amino acids (32-429a.a.) and having a molecular mass of 45.7kDa (Molecular size on SDS-PAGE will appear at approximately 57-70kDa under reducing conditions). BDNF is expressed with an 11 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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