
Product Data Sheet

Product Name: NENF Human
 Cat. No.: GP20764
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Neudesin; Cell immortalization-related protein 2; Neuron-derived neurotrophic factor; Secreted protein of unknown function; SPUF protein; NENF; CIR2; SPUF; SCIRP10.		
Amino Acid Sequence	MKHHHHHHASGQTPRPAERG PPVRLFTEEE LARYGGEEED QPIYLAVKGV VFDVTSGKEF YGRGAPYNAL TGKDSTRGVA KMSLDPADLT HDTTGLTAKE LEALDEVFTK VYKAKYPIVG YTARRILNED GSPNLDFKPE DQPHFDIKDE F.		
Solubility	It is recommended to add 200 μ l deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. NENF is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	NENF was filtered (0.4 μ m) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.		

Introduction

Neudesin Neurotrophic Factor (NENF) is a member of the cytochrome b5 family, MAPR subfamily. NENF contains 1 cytochrome b5 heme-binding domain. NENF exhibits neurotrophic activity and activates phosphorylation of MAPK1/ERK2, MAPK3/ERK1 and AKT1/AKT in primary cultured neurons. NENF doesn't have mitogenic activity in primary cultured astrocytes. NENF may play a part in neuronal differentiation and may have a transient influence on neural cell proliferation in neural precursor cells. NENF neurotrophic activity is increased by binding to heme. NENF is up-regulated in immortal cells and induced in estrogen receptor positive breast cancer expressing progesterone receptor.

Stability

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

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Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

NENF Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (aa 32-172) containing 151 amino acids including a 10 a.a N-terminal His tag.

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