



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Neudesin Neurotrophic Factor, human recombinant (rhuNENF)

**Catalog No:** 99941  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Neudesin, Cell immortalization-related protein 2, Neuron-derived neurotrophic factor, Secreted protein of unknown function, SPUF protein, NENF, CIR2, SPUF, SCIRP10

### Background

Neudesin neurotrophic factor (NENF) is a member of the cytochrome b5 family, MAPR subfamily. NENF contains a cytochrome b5 heme-binding domain. NENF exhibits neurotrophic activity and activates phosphorylation of MAPK1/ERK2, MAPK3/ERK1 and AKT1/AKT in primary cultured neurons. It does not 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's neurotrophic activity is increased by binding to heme. NENF is up-regulated in immortal cells and induced by the breast cancer expressing progesterone receptor.

### Description

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

### Physical Appearance

Filtered, white lyophilized (freeze-dried) powder.

### Formulation

NENF was filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 0.05 M phosphate buffer (pH 7.4) and 0.075 M NaCl.

### Solubility

It is recommended to add 200 µl 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.

### Stability

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.

### Amino Acid Sequence

MKHHHHHHAS GQTPRPAERG PPVRLFTEEE LARYGGEEED QPIYLAVKGV VFDVTSKGKEF YGRGAPYNAL TGKDSTRGVA  
KMSLDPADLT HDTTGLTAKE LEALDEVFTK VYKAKYPIVG YTARRILNED GSPNLDFKPE DQPHFDIKDE F

### Usage

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