

## 32-1615: NENF Recombinant Protein

**Alternative Name** : Neudesin, Cell immortalization-related protein 2, Neuron-derived neurotrophic factor, Secreted protein of unknown function, SPUF protein, NENF, CIR2, SPUF, SCIRP10.

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** NENF was filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.  
**Storage condition :** 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 :** MKHHHHHHASGQTPRPAERG PPVRLFTEEE LARYGGEEED QPIYLAVKGV VFDVTSGKEF  
YGRGAPYNAL TGKDSTRGVA KMSLDPADLT HDTTGLTAKE LEALDEVFTK VYKAKYPIVG  
YTARRILNED GSPNLDFKPE DQPHFDIKDE F.

### Application Note

It is recommended to add 200µl 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.

