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# **Data Sheet**

Product Name: Neuropeptide Y (29-64), amide, human (TFA)

Cat. No.: CS-0059278

Molecular Formula: C191H286F3N55O59S

Molecular Weight: 4385.70

Target: Neuropeptide Y Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Solubility: 10 mM in H2O

YPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRY-NHo

OH F

### **BIOLOGICAL ACTIVITY:**

Neuropeptide Y (29-64), amide, human (TFA) is involved in Alzheimer's disease (AD) and protects rat cortical neurons against  $\beta$ -Amyloid toxicity. **In Vitro:** It is showed that Neuropeptide Y (29-64), amide, human (TFA) is able to protect cortical neurons from A $\beta$ 25-35 toxicity. 2  $\mu$ M NPY abolishes the toxic effects of A $\beta$ 25-35 at 24 and 48 h. The same effect on neuronal survival is observed in neurons exposed to 1  $\mu$ M and 0.5  $\mu$ M Neuropeptide Y (29-64), amide, human (TFA) pretreatments. Pretreatment with Neuropeptide Y (29-64), amide, human (TFA) Increases NGF Synthesis, reduces NGF mRNA, and restores NGF release in cortical neurons exposed to A $\beta$ 35-25<sup>[1]</sup>.

## PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: <sup>[1]</sup>Primary cortical neurons are preincubated either alone (positive control) or with three concentrations of **Neuropeptide Y** (29-64), amide, human (TFA) (NPY) (0.5, 1, and 2  $\mu$ M) for 24 h and then exposed to A $\beta_{25-35}$  (50  $\mu$ M) or A $\beta_{35-25}$  (50  $\mu$ M) for 48 h<sup>[1]</sup>.

#### References:

[1]. Croce N, et al. Neuropeptide Y protects rat cortical neurons against β-amyloid toxicity and re-establishes synthesis and release of nerve growth factor. ACS Chem Neurosci. 2012 Apr 18;3(4):312-8.

#### **CAIndexNames**:

Neuropeptide Y (29-64), amide, human (TFA)

## **SMILES:**

FC(C(O)=O)(F)F.[YPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRY-NH2]

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

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