
Product Data Sheet

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

Cat. No.: GC34270

Chemical Properties

Cas. No.

SMILES Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH2

Formula C₁₉₁H₂₈₆F₃N₅₅O₅₉S M.Wt 4385.7

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Protocol**

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 μM) for 24 h and then exposed to Aβ₂₅₋₃₅ (50 μM) or Aβ₃₅₋₂₅ (50 μM) for 48 h[1].

Cell experiment:

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

Background

Neuropeptide Y (29-64), amide, human (TFA) is involved in Alzheimer's disease (AD) and protects rat cortical neurons against β -Amyloid toxicity.

It is showed that Neuropeptide Y (29-64), amide, human (TFA) is able to protect cortical neurons from A β 25-35 toxicity. 2 μ M NPY abolishes the toxic effects of A β 25-35 at 24 and 48 h. The same effect on neuronal survival is observed in neurons exposed to 1 μ M and 0.5 μ 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 β 35-25[1].

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