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PRODUCT INFORMATION



[Leu³¹,Pro³⁴] Neuropeptide Y (human) (trifluoroacetate salt)

Item No. 24712

Formal Name: 31-L-leucine-34-L-proline-neuropeptide Y (human), trifluoroacetate salt

Synonym: [Leu³¹,Pro³⁴] NPY

MF: C₁₈₉H₂₈₄N₅₄O₅₆S • XCF₃COOH

FW: 4,240.7

Purity: ≥95%

Supplied as: A lyophilized powder

Storage: -20°C

Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

[Leu³¹,Pro³⁴] Neuropeptide Y (NPY) (human) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the [Leu³¹,Pro³⁴] NPY (human) (trifluoroacetate salt) in water. The solubility of [Leu³¹,Pro³⁴] NPY (human) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

[Leu³¹,Pro³⁴] NPY is an agonist of the NPY receptors Y₁ and Y₅ with K_i values of 0.11 and 0.17 nM, respectively, for human and 0.08 and 0.18 nM, respectively, for rhesus monkey receptors.¹ It reduces forskolin-induced cAMP accumulation in L-M(TK-) cells expressing human and rat Y₄ receptors (EC₅₀s = 29.5 and 2.95 nM, respectively).² It also binds to rhesus monkey Y₂ and mouse Y₆ receptors (K_s = 410 and 9.7 nM, respectively).^{1,3} *In vitro*, [Leu³¹,Pro³⁴] NPY increases cellular protein mass by 25% in rat ventricular cardiomyocytes when used at a concentration of 10 nM.⁴ *In vivo*, [Leu³¹,Pro³⁴] NPY (0.7-7 nmol, i.c.v.) increases food intake in rats.⁵

References

1. Gehlert, D.R., Yang, P., George, C., *et al.* Cloning and characterization of Rhesus monkey neuropeptide Y receptor subtypes. *Peptides* **22**(3), 343-350 (2001).
2. Walker, M.W., Smith, K.E., Bard, J., *et al.* A structure-activity analysis of the cloned rat and human Y₄ receptors for pancreatic polypeptide. *Peptides* **18**(4), 609-612 (1997).
3. Mullins, D.E., Guzzi, M., Xia, L., *et al.* Pharmacological characterization of the cloned neuropeptide Y₆ receptor. *Eur. J. Pharmacol.* **395**(2), 87-93 (2000).
4. Nicholl, S.M., Bell, D., Spiers, J.P., *et al.* Neuropeptide Y Y₁ receptor regulates protein turnover and constitutive gene expression in hypertrophying cardiomyocytes. *Eur. J. Pharmacol.* **441**(1-2), 23-34 (2002).
5. Haynes, A.C., Arch, J.R.S., Wilson, S., *et al.* Characterisation of the neuropeptide Y receptor that mediates feeding in the rat: A role for the Y₅ receptor? *Regul. Pept.* **75-76**, 355-361 (1998).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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