

---

**Product Data Sheet**


---

Product Name: Neuropeptide Y (13-36), amide, human (Neuropeptide Y (13-36), human)

Cat. No.: GC31154

### Chemical Properties

Cas. No. 122341-40-6

SMILES 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  $C_{134}H_{207}N_{41}O_{36}S$  M.Wt 3000.4

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

#### Animal experiment:

Rats[1]Neuropeptide Y (13-36) dissolved in 30 µL mock cerebrospinal fluid (CSF), or CSF alone, is injected (30/µL/3 min) by means of an automatic micro-injection pump into the lateral ventricle of freely moving, unrestrained male rats. Five doses of Neuropeptide Y (13-36) (25, 75, 750, 1250, 3000 pM) are injected in order to evaluate possible dose-dependent effects and the effects are compared with the CSF group. A threshold dose of Neuropeptide Y (13-36) is also injected together with a dose of Neuropeptide Y (1-36) (75 pM), close to the ED50 value for its overall vasodepressor action in awake rats[1].

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

---

---

## Product Data Sheet

---

### References:

[1]. Aguirre JA, et al. Centrally injected neuropeptide Y (13-36) produces vasopressor effects and antagonizes the vasodepressor action of neuropeptide Y (1-36) in the awake male rat. *Neurosci Lett.* 1990 Oct 2;118(1):5-8.

### Background

Neuropeptide Y (13-36), amide, human is a neuropeptide Y receptor agonist.

Intraventricular injections of the Y2 neuropeptide Y receptor agonist porcine Neuropeptide Y (13-36) (25-3000 pM) produces a dose-dependent increase (up to 14%; ED50=0.3 nM for overall effects and 0.97 nM for the peak effects) in mean arterial blood pressure in the awake, unrestrained male rat without affecting heart rate. Central administration of porcine Neuropeptide Y (13-36) produces marked vasodepressor and bradycardic actions in the anaesthetized  $\alpha$ -chloralose and in the awake unrestrained male rat[1].

[1]. Aguirre JA, et al. Centrally injected neuropeptide Y (13-36) produces vasopressor effects and antagonizes the vasodepressor action of neuropeptide Y (1-36) in the awake male rat. *Neurosci Lett.* 1990 Oct 2;118(1):5-8.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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