NPY5RA-972

Cat. No.: HY-107730

CAS No.: 439861-56-0

Molecular Formula: $C_{21}H_{25}N_3O_2$

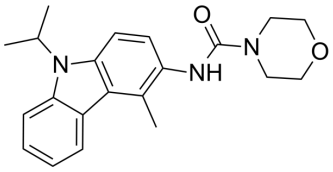
Molecular Weight: 351.44

Target: Neuropeptide Y Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (47.43 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.8454 mL	14.2272 mL	28.4544 mL
5 mM	0.5691 mL	2.8454 mL	5.6909 mL
10 mM	0.2845 mL	1.4227 mL	2.8454 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NPY5RA-972 is an orally active, central nervous system (CNS) penetrating, potent and selective NPY Y5 receptor antagonist that prevents feeding driven by activation of this receptor[1].

In Vivo

NPY5RA-972(p.o., 10.5 mg/kg) has a T_{max} value of 1 hour in rats, a C_{max} of 35 μM, a half-life of 6.4 hours, and a total plasma concentration of greater than 3 μM/h even 24 hours after administration[1].

NPY5RA-972 (p.o., 1-10 mg/kg) inhibits food intake elicited by a selective NPY Y5 receptor agonist, but has no effect on food intake or body weight in freely-fed Wistar rats or diet-obese rats Influence[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Andrew V Turnbull, et al. Selective antagonism of the NPY Y5 receptor does not have a major effect on feeding in rats. Diabetes. 2002 Aug;51(8):2441-9.

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

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