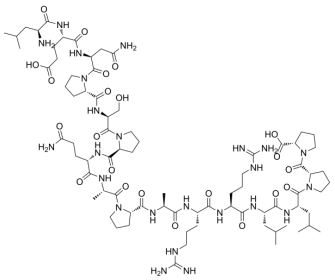
BigLEN(mouse)



Cat. No.: HY-P2210

CAS No.: 501036-69-7

Molecular Formula: $C_{78}H_{130}N_{24}O_{22}$

Molecular Weight: 1756.01

Sequence Shortening: LENPSPQAPARRLLPP

Target: GPR171

Pathway: GPCR/G Protein

Storage: Sealed storage, away from moisture and light

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (56.95 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.5695 mL	2.8474 mL	5.6947 mL
	5 mM	0.1139 mL	0.5695 mL	1.1389 mL
	10 mM	0.0569 mL	0.2847 mL	0.5695 mL

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

BIOLOGICAL ACTIVITY

Description

BigLEN(mouse) is a potent and selective agonist of orphan G protein-coupled receptor 171 (GPR171), with a K_d of ~0.5 nM. BigLEN(mouse) can be used to regulate responses associated with food intake and metabolism[1][2].

IC_{50} & Target

Kd: ≈0.5 nM (GPR171)[1]

REFERENCES

[1]. Gomes I, et, al. GPR171 is a hypothalamic G protein-coupled receptor for BigLEN, a neuropeptide involved in feeding. Proc Natl Acad Sci U S A. 2013 Oct 1;110(40):16211-6.

[2]. Mack SM, et, al. Neuropeptide PEN and Its Receptor GPR83: Distribution, Signaling, and Regulation. ACS Chem Neurosci. 2019 Apr 17;10(4):1884-1891.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA