NPR-C activator 1

Cat. No.: HY-143316

CAS No.: 2768328-61-4

Molecular Formula: $C_{18}H_{24}N_6O_3$

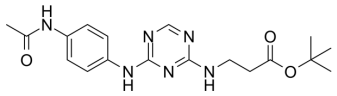
Molecular Weight: 372

Target: Others

Pathway: Others

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 : 100 mg/mL (268.82 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6882 mL	13.4409 mL	26.8817 mL
	5 mM	0.5376 mL	2.6882 mL	5.3763 mL
	10 mM	0.2688 mL	1.3441 mL	2.6882 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (6.72 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (6.72 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (6.72 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

NPR-C activator 1 (Compound 1) is a potent activator of natriuretic peptide receptor C (NPR-C). C-type natriuretic peptide (CNP) is involved in the regulation of vascular homeostasis. NPR-C activator 1 is identified as a potent agonist (EC_{50} - 1 μM) with promising in vivo pharmacokinetic properties[1].

REFERENCES

[1]. Smith RJ, et al. A Series of Substituted Bis-Aminotriazines Are Activators of the Natriuretic Peptide Receptor C. J Med Chem. 2022 Apr 14;65(7):5495-5513.

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