

NPR-C activator 1

Chemical Properties

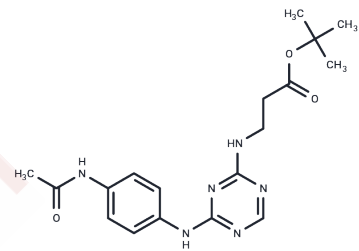
CAS No. : 2768328-61-4

Formula: C₁₈H₂₄N₆O₃

Molecular Weight: 372.42

Storage: Keep away from moisture, Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	NPR-C activator 1 (Compound 1) is a potent agonist (EC ₅₀ ~ 1 μM) of natriuretic peptide receptor C (NPR-C), which plays a crucial role in regulating vascular homeostasis, and demonstrates promising in vivo pharmacokinetic properties [1].
Targets(IC50)	Others, Guanylate cyclase

Solubility Information

Solubility	DMSO: 80 mg/mL (214.81 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (8.86 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6851 mL	13.4257 mL	26.8514 mL
5 mM	0.537 mL	2.6851 mL	5.3703 mL
10 mM	0.2685 mL	1.3426 mL	2.6851 mL
50 mM	0.0537 mL	0.2685 mL	0.537 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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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