

## Nampt activator-2

## Chemical Properties

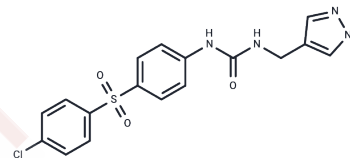
CAS No. : 2237268-90-3

Formula: C<sub>17</sub>H<sub>15</sub>ClN<sub>4</sub>O<sub>3</sub>S

Molecular Weight: 390.84

Storage: 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	Nampt activator-2 is a NAMPT activator (EC <sub>50</sub> : 0.023 μM). Nampt activator-2 has an affinity for CYP2C9, 2D6, and 2C19 with affinity values of 0.060 μM, 0.41 μM, and 0.59 μM, respectively. Nampt activator-2 can be used in the study of atherosclerosis, obesity, type II diabetes, insulin resistance, and type I diabetes.
Targets(IC <sub>50</sub> )	Cytochromes P450, NAMPT
In vitro	Nampt activator-2 (compound 34) (10 μM; 4 h) significantly increases NMN and NAD levels in A549 lung epithelial cells.[1]
In vivo	Nampt activator-2 (compound 34) (1 mg/kg IV; 10 mg/kg PO; once) demonstrates low plasma clearance, substantial exposure, and excellent oral bioavailability (%F = 80).[1]

## Solubility Information

Solubility	DMSO: 150 mg/mL (383.79 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (25.59 mM), Suspension. <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

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	1mg	5mg	10mg
1 mM	2.5586 mL	12.793 mL	25.5859 mL
5 mM	0.5117 mL	2.5586 mL	5.1172 mL
10 mM	0.2559 mL	1.2793 mL	2.5586 mL
50 mM	0.0512 mL	0.2559 mL	0.5117 mL

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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

Pinkerton AB, et al. Optimization of a urea-containing series of nicotinamide phosphoribosyltransferase (NAMPT) activators. *Bioorg Med Chem Lett.* 2021 Jun 1;41:128007.

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