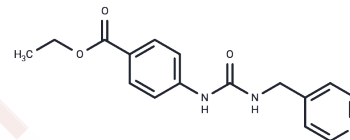


## Nampt activator-1

## Chemical Properties

CAS No. :	701929-65-9
Formula:	C16H17N3O3
Molecular Weight:	299.32
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-1 (compound 1) is an effective and specific activator of niacinamide phosphotransferase (Compound 1) with a wide range of EC50 (3.3-3.7 $\mu$ M). NAMPT activator-1 effectively protects cultured cells from FK866-mediated toxicity and is a potential neuroprotective compound.
Targets(IC50)	NAMPT

## Solubility Information

Solubility	DMSO: 225 mg/mL (751.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (11.02 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	3.3409 mL	16.7045 mL	33.4091 mL
5 mM	0.6682 mL	3.3409 mL	6.6818 mL
10 mM	0.3341 mL	1.6705 mL	3.3409 mL
50 mM	0.0668 mL	0.3341 mL	0.6682 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

Akiu M, et al. Discovery of 1-[2-(1-methyl-1H-pyrazol-5-yl)-[1, 2, 4] triazolo [1, 5-a] pyridin-6-yl]-3-(pyridin-4-ylmethyl) urea as a potent NAMPT (nicotinamide phosphoribosyltransferase) activator with attenuated CYP inhibition. *Bioorganic & Medicinal Chemistry Letters*. 2021;43: 128048.

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