

JGB-1-155

## Chemical Properties

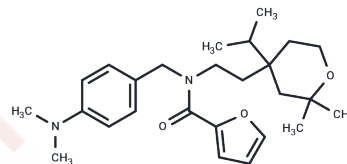
CAS No. : 3011930-28-9

Formula: C<sub>26</sub>H<sub>38</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 426.59

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	JGB-1-155 is a positive allosteric modulator of nicotinamide phosphoribosyltransferase that enhances NAMPT enzymatic activity, elevates intracellular NAD <sup>+</sup> levels in human monocytes, counteracts oxidative stress, and attenuates TNF $\alpha$ -induced reactive oxygen species production, supporting its application in studies of redox balance and inflammatory signaling.
Targets(IC50)	NAMPT
In vitro	In biochemical assays, JGB-1-155 significantly activated the NAMPT enzyme with an EC <sub>50</sub> of 0.026 $\mu$ M and protected the cells from oxidative stress-induced death [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3442 mL	11.7209 mL	23.4417 mL
5 mM	0.4688 mL	2.3442 mL	4.6883 mL
10 mM	0.2344 mL	1.1721 mL	2.3442 mL
50 mM	0.0469 mL	0.2344 mL	0.4688 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

Gordon-Blake J, et al. , Nicotinamide Phosphoribosyltransferase Positive Allosteric Modulators Attenuate Neuronal Oxidative Stress. ACS Med Chem Lett. 2024 Jan 24;15(2):205-214.

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