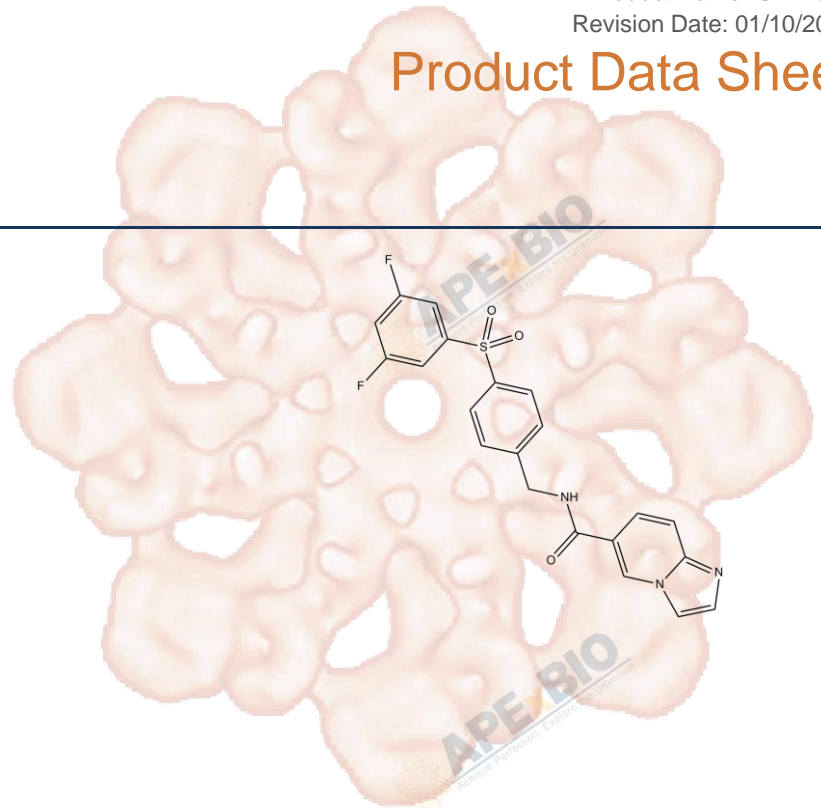


# Product Data Sheet

## GNE-617

<b>Cat. No.:</b>	B1271
<b>CAS No.:</b>	1362154-70-8
<b>Formula:</b>	C <sub>21</sub> H <sub>15</sub> F <sub>2</sub> N <sub>3</sub> O <sub>3</sub> S
<b>M.Wt:</b>	427.42
<b>Synonyms:</b>	
<b>Target:</b>	Others
<b>Pathway:</b>	Nampt
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

≥21.35 mg/mL in DMSO; insoluble in H<sub>2</sub>O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	2.3396 mL	11.6981 mL	23.3962 mL
	<b>5 mM</b>	0.4679 mL	2.3396 mL	4.6792 mL
	<b>10 mM</b>	0.2340 mL	1.1698 mL	2.3396 mL

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

## Biological Activity

Shortsummary

NAMPT inhibitor

IC<sub>50</sub> & Target

In Vitro

### Cell Viability Assay

Cell Line:	hARPE-19 and hRPEpC cell lines
Preparation method:	The solubility of this compound in DMSO is > 21.4 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	0.0032, 0.016, 0.08, 0.4, 2, and 10 μM, 3 d

	Applications:	In rat retinal mixed cell population, cytotoxicity induced by GNE-617 is correlated with activity and potency. And human cells were more sensitive to cytotoxicity induced by GNE-617 than rat cells.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Female BALB/c SCID mice
	Dosage form:	Oral administration, 5-30 mg/kg, twice daily for 5 days
	Applications:	When treated with GNE-617, a significant time-dependent decrease in NAD levels was observed in PC3 and HT-1080 xenograft tumors. In the HT-1080 xenograft model, GNE-617 decreased tumor NAD levels in a dose-dependent manner.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

- [1]. Zabka T S, Singh J T, Dhawan P, et al. Retinal toxicity, in vivo and in vitro, associated with inhibition of nicotinamide phosphoribosyltransferase[J]. Toxicological Sciences, 2014: kfu268.
- [2]. O'Brien T, Oeh J, Xiao Y, et al. Supplementation of nicotinic acid with NAMPT inhibitors results in loss of in vivo efficacy in NAPRT1-deficient tumor models[J]. Neoplasia, 2013, 15(12): 1314IN1-1329IN3.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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**APEx BIO Technology**

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