Data Sheet (Cat.No.T4605)



NT157

Chemical Propert	ies	
CAS No. :	1384426-12-3	но
Formula:	C16H14BrNO5S	Br
Molecular Weight:	412.26	- S HN
Appearance:	no data available	
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year	но он

Biological Description

Description	NT157 is a small molecule tyrphostin targeting IRS protein and has the potential to inhibit IGF-1R and STAT3 signaling pathways in TME cancer cells and stromal cells, resulting in decreased cancer cell survival.
Targets(IC50)	IGF-1R,STAT
In vitro	NT157 treatment resulted in dose-dependent inhibition of IGF1R activation, suppression of IRS protein expression, inhibition of IGF1-induced AKT activation, but increased ERK activation in NT157-treated cells in vitro[2].
In vivo	NT157 suppressed androgen-responsive growth, delayed CRPC progression of LNCaP xenografts, and suppressed PC3 tumor growth alone and in combination with docetaxel[2].

Solubility Information

Solubility	DMSO: 77 mg/ml(186.78 mM)
	Ethanol: 25.83mg/ml(186.78 mM)
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4257 mL	12.1283 mL	24.2565 mL
5 mM	0.4851 mL	2.4257 mL	4.8513 mL
10 mM	0.2426 mL	1.2128 mL	2.4257 mL
50 mM	0.0485 mL	0.2426 mL	0.4851 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.

Reference

Zhou J, Shi Y, Yang C, et al.γ-glutamylcysteine alleviates insulin resistance and hepatic steatosis by regulating adenylate cyclase and IGF-1R/IRS1/PI3K/Akt signaling pathways. The Journal of Nutritional Biochemistry. 2023:

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