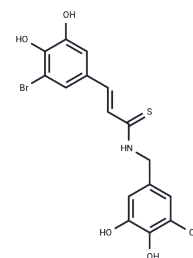


NT157

## Chemical Properties

CAS No. : 1384426-12-3  
 Formula: C<sub>16</sub>H<sub>14</sub>BrNO<sub>5</sub>  
 Molecular Weight: 412.26  
 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	NT157 is a small molecule tyrosine kinase inhibitor 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)	STAT,IGF-1R
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),Sonication is recommended. Ethanol: 25.83 mg/mL (62.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.85 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	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.

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

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