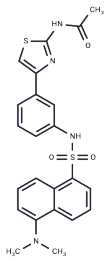
Data Sheet (Cat.No.T6855)

TargetMol

HA15

Chemical Properties



CAS No. : 1609402-14-3

Formula: C23H22N4O3S2

Molecular Weight: 466.58

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	HA15 targets specifically BiP/GRP78/HSPA5. HA15 exhibits anti-cancerous activity on all melanoma cells tested, including cells isolated from patients and cells that developed resistance to BRAF inhibitors.
Targets(IC50)	Apoptosis,HSP,Autophagy,GPCR
In vitro	HA15 induces ER stress leading to cancer cell death in vitro and overcomes BRAF inhibitor resistance in melanoma cells[1].
In vivo	HA15 induces ER stress leading to cancer cell death and exhibits strong efficacy in xenograft mouse models with melanoma cells either sensitive or resistant to BRAF inhibitors[1].

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 115 mg/mL (246.47 mM),Sonication is recommended. Ethanol: 42 mg/mL (90.02 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: 3.3 mg/mL (7.07 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1433 mL	10.7163 mL	21.4326 mL
5 mM	0.4287 mL	2.1433 mL	4.2865 mL
10 mM	0.2143 mL	1.0716 mL	2.1433 mL
50 mM	0.0429 mL	0.2143 mL	0.4287 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

Cerezo M, et al. Cancer Cell. 2016, 29(6):805-19.
Zhang T, Li J, Yang M, et al. CDK7/GRP78 signaling axis contributes to tumor growth and metastasis in osteosarcoma. Oncogene. 2022: 1-13.