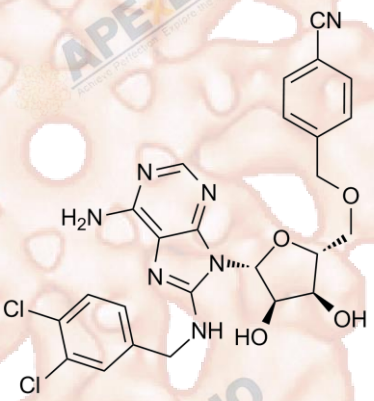
Product Data Sheet

VER 155008



Cat. No.: A4387

CAS No.: 1134156-31-2

Formula: C25H23Cl2N7O4

M.Wt: 556.4

Synonyms: adenosine-derived inhibitor, VER155008, VER-155008

Target: Metabolism

Pathway: HSP

Storage: Store at -20°C

Solvent & Solubility

In Vitro

⩾27.8 mg/mL in DMSO; insoluble in H2O; ⩾4.65 mg/mL in EtOH with gentle warming and ultrasonic

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.7973 mL	8.9863 mL	17.9727 mL
5 mM	0.3595 mL	1.7973 mL	3.5945 mL
10 mM	0.1797 mL	0.8986 mL	1.7973 mL

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

Biological Activity

Shortsummary	HSP 70 inhibitor,adenosine-derived
IC_{50} & Target	0.5 μM (HSP 70)

In Vitro

Cell Viability Assay

Cell Line:	BT474, MB-468, HCT116 and HT29 cells
Preparation method：	The solubility of this compound in DMSO is > 10 mM. 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:	50 μM; 72 hrs
	Applications:	In human breast and colon cancer cell lines BT474, MB-468, HCT116 and HT29, VER 155008 inhibited cell proliferation, with the GI50 values ranging from 5.3 μM to 14.4 μM. In addition, VER 155008 induced Hsp90 client protein degradation in both HCT116 and BT474 cells.
In Vivo	**Animal experiment**	
	Animal models:	Mice bearing HCT116 tumors
	Dosage form:	25 or 40 mg/kg; i.v.
	Applications:	In mice bearing HCT116 tumors, VER 155008 showed rapid metabolism and clearance, along with tumor levels below the predicted pharmacologically active level.
	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

1.He XM, Liu L, Cheng TY. "HSC70 from Haemaphysalis flava (Acari: Ixodidae) exerts anticoagulation activity in vitro." Ticks Tick Borne Dis. 2018 Oct 17. pii:S1877-959X(18)30258-9.PMID:30366643

2.Santarriaga S, Haver HN, et al. "SRCP1 Conveys Resistance to Polyglutamine Aggregation." Mol Cell. 2018 Jul 19;71(2):216-228.e7.PMID:30029002

3.XiChuan Tanga, LiWei Tanb, et al. "Gold nanorods together with HSP inhibitor-VER-155008 micelles for colon cancer mild-temperature photothermal therapy." Acta Pharmaceutica Sinica B Available online 5 June 2018.

4.Tang, Pei-Ciao, and Glen M. Watson. "Proteomic identification of hair cell repair proteins in the model sea anemone Nematostella vectensis." Hearing research (2015).PMID:26183436

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References

[1]. Massey AJ, Williamson DS, Browne H, Murray JB, Dokurno P, Shaw T, Macias AT, Daniels Z, Geoffroy S, Dopson M, Lavan P, Matassova N, Francis GL, Graham CJ, Parsons R, Wang Y, Padfield A, Comer M, Drysdale MJ, Wood M. A novel, small molecule inhibitor of Hsc70/Hsp70 potentiates Hsp90 inhibitor induced apoptosis in HCT116 colon carcinoma cells. Cancer Chemother Pharmacol. 2010; 66(3): 535-545

[2]. Williamson DS, Borgognoni J, Clay A, Daniels Z, Dokurno P, Drysdale MJ, Foloppe N, Francis GL, Graham CJ, Howes R, Macias AT, Murray JB, Parsons R, Shaw T, Surgenor AE, Terry L, Wang Y, Wood M, Massey AJ. Novel adenosine-derived inhibitors of 70 kDa heat shock protein, discovered through structure-based design. J Med Chem. 2009 Mar 26;52(6):1510-3.

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 APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm 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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