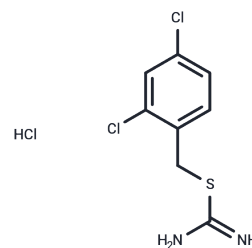


RRD-251

Chemical Properties

CAS No. :	72214-67-6
Formula:	C ₈ H ₉ Cl ₃ N ₂ S
Molecular Weight:	271.59
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	RRD-251 is a specific small-molecule disruptor of the Rb-Raf-1 interaction. By blocking the physical binding between the Rb protein and Raf-1 kinase, it inhibits downstream cell cycle progression and survival signaling without affecting Rb-E2F1 binding. Research indicates that RRD-251 effectively induces apoptosis in various tumor cells, particularly metastatic melanoma, and demonstrates significant synergistic enhancement in combination chemotherapy studies.
In vitro	RRD-251 specifically disrupts the Rb-Raf-1 complex and induces apoptosis in metastatic melanoma cells by activating caspase-3 and inducing G1-phase arrest [1].
In vivo	In melanoma xenograft models, systemic administration of RRD-251 significantly inhibits tumor growth and shows marked synergy when combined with the chemotherapeutic agent dacarbazine [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (368.2 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.682 mL	18.4101 mL	36.8202 mL
5 mM	0.7364 mL	3.682 mL	7.364 mL
10 mM	0.3682 mL	1.841 mL	3.682 mL
50 mM	0.0736 mL	0.3682 mL	0.7364 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

Sandeep Singh, et al. Rb-Raf-1 interaction disruptor RRD-251 induces apoptosis in metastatic melanoma cells and synergizes with dacarbazine. Mol Cancer Ther. 2010 Dec; 9(12): 3330-3341.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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