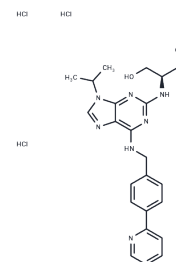


## (R)-CR8 trihydrochloride

### Chemical Properties

CAS No. :	1786438-30-9
Formula:	C <sub>24</sub> H <sub>32</sub> Cl <sub>3</sub> N <sub>7</sub> O
Molecular Weight:	540.92
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



### Biological Description

Description	(R)-CR8 trihydrochloride (CR8, (R)-isomer trihydrochloride) is a CDK1/2/5/7/9 inhibitor that acts as a molecular glue degrader with neuroprotective activity and induces apoptosis.
Targets(IC50)	Apoptosis,CDK,Molecular Glues
In vitro	In the SH-SY5Y cell line, (R)-CR8 trihydrochloride (0.1, 1, 10, 100 μM; 24 hours) reduced cell survival in a dose-dependent manner[1].
In vivo	In 10 to 12-week-old male Sprague-Dawley rats (310 to 330g), administration of (R)-CR8 trihydrochloride at 5 mg/kg (i.p.) resulted in a significant reduction in lesion size[2].

### Solubility Information

Solubility	DMSO: 30 mg/mL (55.46 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 (3.7 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

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	1mg	5mg	10mg
1 mM	1.8487 mL	9.2435 mL	18.487 mL
5 mM	0.3697 mL	1.8487 mL	3.6974 mL
10 mM	0.1849 mL	0.9244 mL	1.8487 mL
50 mM	0.037 mL	0.1849 mL	0.3697 mL

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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

Bettayeb K, et al. CR8, a potent and selective, roscovitine-derived inhibitor of cyclin-dependent kinases. *Oncogene*. 2008 Oct 2;27(44):5797-807.

Kabadi SV, et al. CR8, a novel inhibitor of CDK, limits microglial activation, astrogliosis, neuronal loss, and neurologic dysfunction after experimental traumatic brain injury. *J Cereb Blood Flow Metab*. 2014 Mar;34(3):502-13.

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