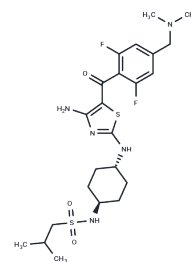


CRK12-IN-2

Chemical Properties

CAS No. :	1990479-17-8
Formula:	C ₂₃ H ₃₃ F ₂ N ₅ O ₃ S ₂
Molecular Weight:	529.67
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	CRK12-IN-2 is a potent inhibitor of CRK12. CRK12-IN-2 inhibits the parasite, with EC ₅₀ values of 3.2 and 0.08 nM for <i>Trypanosoma congolense</i> and <i>Trypanosoma vivax</i> , respectively. CRK12-IN-2 can be used for the prevention and treatment of trypanosomiasis in animals.
Targets(IC ₅₀)	Parasite
In vivo	Administered subcutaneously at a dosage of 10 mg/kg once daily for 4 days, CRK12-IN-2 effectively cures mice infected with <i>T. congolense</i> and <i>T. vivax</i> [1].

Solubility Information

Solubility	DMSO: 55 mg/mL (103.84 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	1.888 mL	9.4398 mL	18.8797 mL
5 mM	0.3776 mL	1.888 mL	3.7759 mL
10 mM	0.1888 mL	0.944 mL	1.888 mL
50 mM	0.0378 mL	0.1888 mL	0.3776 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

Smith A, et al. Repositioning of a Diaminothiazole Series Confirmed to Target the Cyclin-Dependent Kinase CRK12 for Use in the Treatment of African Animal Trypanosomiasis. J Med Chem. 2022 Apr 14;65(7):5606-5624.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481