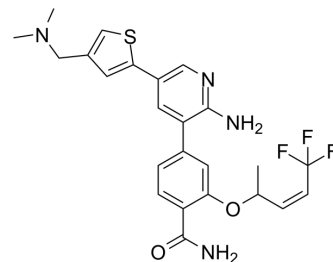


(Rac)-CCT 250863

Cat. No.:	HY-117884
CAS No.:	1364269-06-6
Molecular Formula:	C ₂₄ H ₂₅ F ₃ N ₄ O ₂ S
Molecular Weight:	490.54
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div>



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (101.93 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.0386 mL	10.1928 mL	20.3857 mL
	5 mM		0.4077 mL	2.0386 mL	4.0771 mL
	10 mM		0.2039 mL	1.0193 mL	2.0386 mL

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

BIOLOGICAL ACTIVITY

Description

(Rac)-CCT 250863 (compound rac-21) is a selective and reversible NEK 2 inhibitor with an IC₅₀ of 0.073 μM. (Rac)-CCT 250863 shows good effects of inducing cell cycle arrest and also can antiproliferative in cells (Pomalidomide sensitive/resistant). (Rac)-CCT 250863 induces apoptosis when combines with Pomalidomide^{[1][2]}.

IC₅₀ & Target

IC₅₀: 0.073 μM (NEK 2), 8.0 μM (H929), 7.1 μM (AMOI), 8.7 μM (K12PE)^{[1][2]}.

REFERENCES

[1]. Ahsan A, et al. Methods for treating cancer with combination therapies. WO2021262962A1.

[2]. Innocenti P, et al. Design of potent and selective hybrid inhibitors of the mitotic kinase Nek2: structure-activity relationship, structural biology, and cellular activity. J Med Chem. 2012 Apr 12;55(7):3228-41.

Caution: Product has not been fully validated for medical applications. For research use only.

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