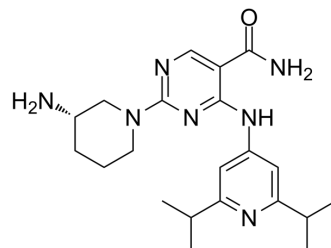


CS640

Cat. No.:	HY-148907		
CAS No.:	2388506-83-8		
Molecular Formula:	C ₂₁ H ₃₁ N ₇ O		
Molecular Weight:	397.52		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (12.58 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5156 mL	12.5780 mL	25.1560 mL
	5 mM	0.5031 mL	2.5156 mL	5.0312 mL
	10 mM	0.2516 mL	1.2578 mL	2.5156 mL

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

BIOLOGICAL ACTIVITY

Description

CS640 is a selective inhibitor of calmodulin-dependent kinases. CS640 inhibits CaMK1D, CaMK1B, CaMK1A, CaMK1G, PIP5K1C, MEK5, RIPK4 and MLK3 with IC₅₀ values of 0.08, 0.03, 0.001, 0.001, 11.2, 0.025, 5.69 and 2.75 μM, respectively. CS640 also shows inhibitory effects to CYP450 2C9 and CYP450 2C19 with IC₅₀ values of 6 and 10 μM, respectively^[1].

REFERENCES

[1]. Fromont C, et al. Discovery of Highly Selective Inhibitors of Calmodulin-Dependent Kinases That Restore Insulin Sensitivity in the Diet-Induced Obesity in Vivo Mouse Model. *J Med Chem.* 2020 Jul 9;63(13):6784-6801.

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

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