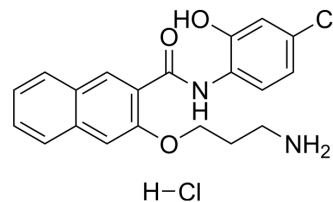


653-47 hydrochloride

Cat. No.:	HY-134598A
CAS No.:	1224567-46-7
Molecular Formula:	C ₂₀ H ₂₀ Cl ₂ N ₂ O ₃
Molecular Weight:	407.29
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (613.81 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.4553 mL	12.2763 mL	24.5525 mL
		5 mM		0.4911 mL	2.4553 mL	4.9105 mL
10 mM		0.2455 mL	1.2276 mL	2.4553 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.11 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	653-47 hydrochloride, a potentiator, significantly potentiates the cAMP-response element binding protein (CREB) inhibitory activity of 666-15. 653-47 hydrochloride is also a very weak CREB inhibitor with IC ₅₀ of 26.3 μM ^[1] .
In Vitro	653-47 (5-10 μM) synergistically inhibits CREB-mediated gene transcription with 666-15 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Xie F, et al. Discovery of a Synergistic Inhibitor of cAMP-Response Element Binding Protein (CREB)-Mediated Gene Transcription with 666-15. J Med Chem. 2019;62(24):11423-11429.

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

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