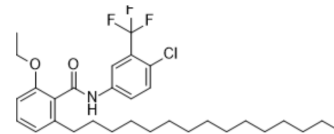


CTPB

Cat. No.:	HY-124960		
CAS No.:	586976-24-1		
Molecular Formula:	C ₃₁ H ₄₃ ClF ₃ NO ₂		
Molecular Weight:	554.13		
Target:	Histone Acetyltransferase		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (112.79 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.8046 mL	9.0232 mL	18.0463 mL
	5 mM	0.3609 mL	1.8046 mL	3.6093 mL
	10 mM	0.1805 mL	0.9023 mL	1.8046 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.08 mg/mL (3.75 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (3.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.75 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CTPB is a good activator of p300 histone acetyl transferase (HAT) enzyme^[1].

IC₅₀ & Target

CBP/p300

In Vitro

CTPB is a synthetic HAT activator, which promotes the transcription by increasing the H3 and H4 acetylation in nucleosome [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cells. 2020 Jun 10;9(6):1447.
- Oncotargets Ther. 2020 Dec 1;13:12383-12395.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Sivanandam M, et al. Investigation of activation mechanism and conformational stability of N-(4-chloro-3-trifluoromethyl-phenyl)-2-ethoxybenzamide and N-(4-chloro-3-trifluoromethyl-phenyl)-2-ethoxy-6-pentadecyl-benzamide in the active site of p300 histone acetyl transferase enzyme by molecular dynamics and binding free-energy studies. J Biomol Struct Dyn. 2018 Oct 9:1-38.

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

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