

## CTPB

## Chemical Properties

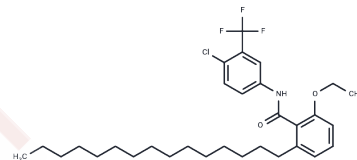
CAS No. : 586976-24-1

Formula: C<sub>31</sub>H<sub>43</sub>ClF<sub>3</sub>NO<sub>2</sub>

Molecular Weight: 554.13

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	CTPB is a potent p300 histone acetyltransferase (HAT) activator that can be used in the preparation of hair growth promoters and/or hair loss treatments.
Targets(IC50)	Histone Acetyltransferase
In vitro	CTPB is a synthetic HAT (histone acetyltransferase) activator that promotes transcription by increasing acetylation of H3 and H4 in the nucleosome[1].

## Solubility Information

Solubility	DMSO: 60 mg/mL (108.28 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	1.8046 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
50 mM	0.0361 mL	0.1805 mL	0.3609 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.

## Reference

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-pentadecylbenzamide 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.

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