

Product Data Sheet

Product Name: CTB
Cat. No.: GC19891

Chemical Properties

Cas. No. 451491-47-7

Chemical Name Cholera Toxin B subunit

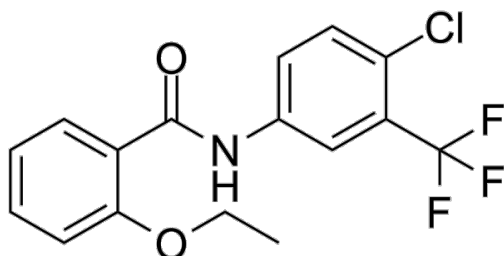
Formula $C_{16}H_{13}ClF_3NO_2$ M.Wt 343.73

Solubility ethanol: 5 mg/mL Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



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

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Background

CTB (Cholera Toxin B subunit) is a potent p300 histone acetyltransferase activator[1]. CTB can effectively induce apoptosis in MCF-7 cells[2].

CTB (10, 50, 100, 150, 200, and 250 μ M; 10 min) enhances p300 HAT activity of p300 in a dosedependent manner[1].

CTB (0-200 μ M; 24 hours) inhibits the viability of MCF-7 cells with an IC50 of 85.43 μ M[2].

CTB (85.43 μ M; 24, 48 and 72 h) induces time dependence apoptosis of MCF-7 cells[2].

CTB (50 μ M; 24 h) increases p300/CBP activity , and reduces autophagic flux in primary neurons[3].

Reference:

[1]. Mantelingu K, et al. Activation of p300 histone acetyltransferase by small molecules altering enzyme structure: probed by surface-enhanced Raman spectroscopy. J Phys Chem B. 2007;111(17):4527-4534.

[2]. Dastjerdi MN, et al. The effect of CTB on P53 protein acetylation and consequence apoptosis on MCF-7 and MRC-5 cell lines. Adv Biomed Res. 2013;2:24. Published 2013 Mar 6.

[3]. Chen X, et al. Promoting tau secretion and propagation by hyperactive p300/CBP via autophagy-lysosomal pathway in tauopathy. Mol Neurodegener. 2020;15(1):2. Published 2020 Jan 6.

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