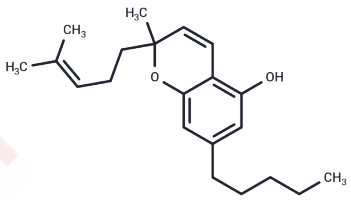
# Data Sheet (Cat.No.TN3575)

TargetMol

## (±)-Cannabichromene

### Chemical Properties



CAS No. : 20675-51-8

Formula: C21H30O2

Molecular Weight: 314.46

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

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|---|---|
| Description | (±)-Cannabichromene is a major non-psychotropic phytocannabinoid that inhibits endocannabinoid inactivation and activates the transient receptor potential ankyrin-1 (TRPA1), it selectively reduces inflammation-induced hypermotility in vivo in a manner that is not dependent on cannabinoid receptors or TRPA1. |
| Targets(IC50) | Cannabinoid Receptor |
| In vitro | Cannabichromene (CBC)? activated CB2 but not CB1 receptors to produce hyperpolarization of AtT20 cells.?This activation was inhibited by a CB2 receptor antagonist AM630, and sensitive to Pertussis toxin.?Application of CBC reduced activation of CB2 , but not CB1 , receptors by subsequent co-application of CP55,940, an efficacious CB1 and CB2 receptor agonist.?Continuous CBC application induced loss of cell surface CB2 receptors and desensitization of the CB2 receptor-induced hyperpolarization[2]. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 55 mg/mL (174.9 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.1801 mL | 15.9003 mL | 31.8005 mL |
| 5 mM | 0.636 mL | 3.1801 mL | 6.3601 mL |
| 10 mM | 0.318 mL | 1.590 mL | 3.1801 mL |
| 50 mM | 0.0636 mL | 0.318 mL | 0.636 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

The effect of cannabichromene on adult neural stem/progenitor cells. Neurochem Int. 2013 Nov;63(5):432-7.
Udoh M P , Santiago M J , Mcgregor I S , et al. Cannabichromene is a cannabinoid CB2 receptor agonist. 2018.





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