

4"-C18 EGCG

Chemical Properties

CAS No. :

Formula: C40H54O11

Molecular Weight: 710.85

Appearance:

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

Biological Description

Description	4"-C18 EGCG is an effective inhibitor of α -amylase and α -glucosidase, with IC ₅₀ values of 3.74 and 0.81 μ M, respectively. This compound suppresses carbohydrate-hydrolyzing enzymes, reduces oxidative stress and inflammation, and exhibits anti-diabetic activity. Moreover, 4"-C18 EGCG downregulates pro-inflammatory cytokines and demonstrates cytotoxicity at 50 μ M against primary human peripheral blood mononuclear cells (PBMC), as well as non-cancerous cell lines 3T3-L1 and HEK 293.
Targets(IC ₅₀)	Glucosidase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4068 mL	7.0338 mL	14.0677 mL
5 mM	0.2814 mL	1.4068 mL	2.8135 mL
10 mM	0.1407 mL	0.7034 mL	1.4068 mL
50 mM	0.0281 mL	0.1407 mL	0.2814 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481