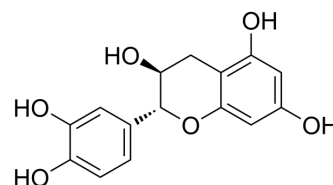


(±)-Catechin

Cat. No.:	HY-B1890		
CAS No.:	7295-85-4		
Molecular Formula:	C ₁₅ H ₁₄ O ₆		
Molecular Weight:	290.27		
Target:	COX		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (430.63 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.4451 mL	17.2253 mL	34.4507 mL
5 mM	0.6890 mL	3.4451 mL	6.8901 mL
10 mM	0.3445 mL	1.7225 mL	3.4451 mL

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

BIOLOGICAL ACTIVITY

Description

(±)-Catechin (rel-Cianidanol) This is a green tea polyester. Catechin possesses anti-cancer activity, which has led to its demise. (±)-Catechin forms (+)-Catechin and its reflection body (-)-Catechin. (+)-Catechin inhibitory environment-1 (COX-1) IC₅₀ 1.4 μM. (-)-Catechin has the effect of promoting hBM-MSC adipose cell differentiation, increasing adipose tissue, and PPARγ horizontal. (±)-Catechin has anti-diabetic, anti-hypertrophic, anti-diabetic, anti-cardiovascular, anti-infective, and liver-protecting effects.

In Vitro

(-)-catechin (10 μM; a 2-day cycle for 12 days in total) induces adipocyte differentiation of human bone marrow mesenchymal stem cells (hBM-MSC), increases adiponectin levels, and increased PPARγ transcription^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mamoru Isemura. Catechin in Human Health and Disease. Molecules. 2019 Feb 1;24(3):528.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA