# Data Sheet (Cat.No.T8255)



## (±)-Catechin

#### **Chemical Properties**

CAS No.: 7295-85-4

Formula: C15H14O6

Molecular Weight: 290.27

Appearance: no data available

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

#### **Biological Description**

Description	( $\pm$ )-Catechin (( $\pm$ )-Catechin hydrate) hydrate is a natural product,has antioxidant activity and is effective in reducing oxidative stress.
Targets(IC50)	ROS,COX
In vivo	(+)-catechin hydrate has antioxidant activity and is effective in reducing oxidative stress.?The study is of clinical importance as oxidative stress is known to be the cause of many clinical manifestations viz. cancer, Parkinson's disease, atherosclerosis, heart failure, myocardial infarction and many other diseases[1].

### **Solubility Information**

Solubility	DMSO: 22.5 mg/mL (77.51 mM), \(\lambda \text{lt; 1 mg/ml refers to the product slightly soluble}\)	
	or insoluble)	

#### **Preparing Stock Solutions**

	1mg	5mg	10mg
1 mM	3.4451 mL	17.2253 mL	34.4507 mL
5 mM	0.689 mL	3.4451 mL	6.8901 mL
10 mM	0.3445 mL	1.7225 mL	3.4451 mL
50 mM	0.0689 mL	0.3445 mL	0.689 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

Mehra P, Garg M, Koul A, et al. Effect of (+)-catechin hydrate on oxidative stress induced by high sucrose and high fat diet in male Wistar rats[J]. Indian journal of experimental biology, 2013, 51(10):823-827.

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