



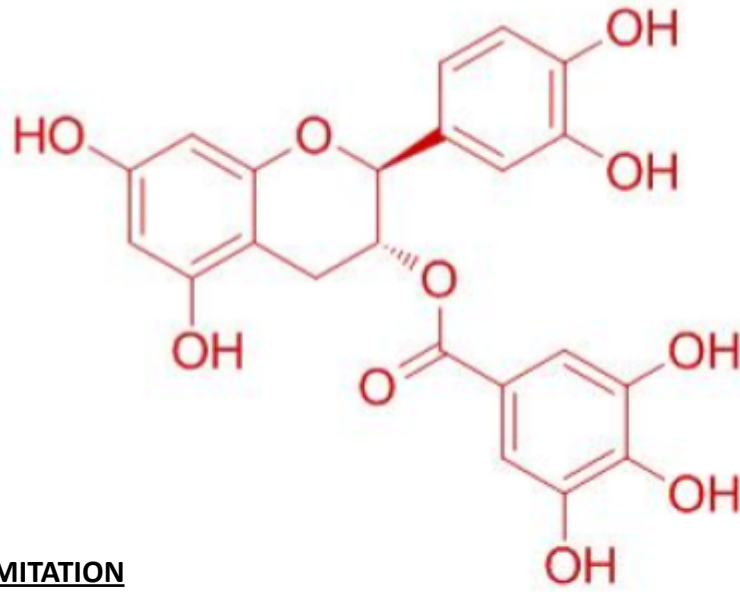
(-)-Catechin gallate(CG)

Cat# C011827S

store at at 2-8°C.

INFORMATION

Size	20mg
Applications	Chemicals>Natural Products
M.F	C22H18O10
Physical Description	White powder
Purity	>=98%
M.W	442.37
Synonyms	(2S,3R)-2-(3,4-Dihydroxyphenyl)-5,7-dihydroxychroman-3-yl-3,4,5-trihydroxy benzoate;[(2S,3R)-2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-3,4-dihydro-2H-chromen-3-yl]3,4,5-trihydroxybenzoate.
Storage Stability	2-8°C, Protected from air and light, refrigerate or freeze.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
Source	The wood of Acacia catechu (L.F.) Willd.
HPLC Method	Mobile phase: (Methanol-0.1% formic acid=10:90)-(Methanol-acetonitrile-0.1% formic acid=50:30:20),gradient elution ;Flow rate:1.0 ml/min; Column temperature: 30°C;The wave length of determination:280 nm.
Intended Use	1. Reference standards; 2. Pharmacological research; 3. Food research; 4. Synthetic precursor compounds; 5. Intermediates & Fine Chemicals; 6. Others.
Biological Activity or Inhibitors	1)Catechin gallate (CG, IC50=53 microM) shows cytotoxicity against the colorectal adenocarcinoma cell line HCT116. 2)Catechin 3-gallate (CG) is a good inhibitor of maltase, with IC50 values of 62 uM, it inhibits both α -glucosidases and rabbit glycogen phosphorylase (GP) in vitro and in cell culture, would contribute to the protection or improvement of type 2 diabetes. 3)Catechin gallate exhibits strong anti-proliferative and anti-inflammatory activities on pancreatic ductal adenocarcinoma (PDAC) cells.



PRODUCT USE LIMITATION