ACE Biolabs
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Datasheet
Ver.2 Date : 20211108

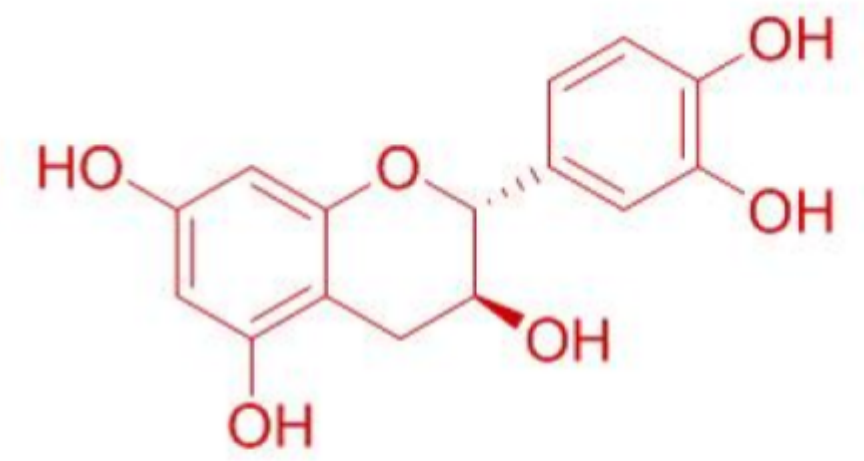
(+)-Catechin

Cat# C011224S

store at at 2-8℃.

INFORMATION

Size	20mg
Applications	Chemicals>Natural Products
M.F	C15H14O6
Physical Description	Powder
Purity	> 98%
M.W	290.27
Synonyms	Cianidanol; 3,3,4,5,7-Flavanpentol; (+)-Catechins; 2-(3,4-dihydroxyphenyl)chromane-3,5,7-triol(2R,3S); (2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-2H-chromene-3,5,7-triol.
Storage Stability	2-8℃, Protected from air and light, refrigerate or freeze.
Solvent	Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
Source	The bark of Taxus yunnanensis.
HPLC Method	Mobile phase: Acetonitrile- 20mM KH2PO4, gradient elution ; Flow rate: 1.0 ml/min; Column temperature: Room Temperature; The wave length of determination: 210 nm.
Intended Use	1. Reference standards; 2. Pharmacological research; 3. Food and cosmetic research; 4. Synthetic precursor compounds; 5. Intermediates & Fine Chemicals; 6. Others.
Biological Activity or Inhibitors	1)Green tea catechin, epigallocatechin-3-gallate (EGCG) functions as a powerful antioxidant, preventing oxidative damage in healthy cells, but also as an antiangiogenic and antitumor agent and as a modulator of tumor cell response to chemotherapy;much of the cancer chemopreventive properties of green tea are mediated by EGCG that induces apoptosis and promotes cell growth arrest by altering the expression of cell cycle regulatory proteins, activating killer caspases, and suppressing oncogenic transcription factors and pluripotency maintain factors. 2)(+/-)-Catechin has phytotoxic and antimicrobial activity. 3)Catechins have antiviral effect on influenza virus, mediated not only by specific interactionwith HA, but altering the physical properties of viral membrane. 4)Catechins, whether from tea or other sources, may reduce the risk of ischemic heart disease mortality but not of stroke.



PRODUCT USE LIMITATION