

Product Name : Methyl 3-O-methylgallate

Synonyms : M3OMG

Cat No. : M26294

CAS Number : 3934-86-9

Molecular Formula : C9H10O5

Formula Weight : 198.2

Chemical Name : ----

Description

methylgallate showed antioxidant activity without prooxidant effect in neuronal SH-SY5Y cells.(In Vivo):Animals were treated with either Methyl 3-O-methylgallate(10 and 20 mg/kg i.p.), vitamin C (10 mg/kg i.p.) as the standard antioxidant or the vehicle (5 % dimethyl sulfoxide; 1 ml/kg) for 1 week. Oxidative stress was induced in the brain by adding 600 ppm NaF in the drinking water for 7 days. At the end of the treatment period, the levels of thiobarbituric acid reactive substances (TBARS), reduced glutathione and the activities of antioxidant enzymes (superoxide dismutase and catalase) were

Methyl 3-O-methylgallate is a rare natural product that showed promising antioxidant activities.(In Vitro):Methyl 3-O-

evaluated in brain homogenates. Methyl 3-O-methylgallate mitigated the NaF-induced oxidative stress through normalization of the level of TBARS, reduced levels of glutathione and by the restoration of the diminished antioxidant enzyme activities.

Pathway : Others

Target : Other Targets

Receptor : chitin synthesis

Solubility : —

SMILES : COC(=O)c1cc(O)c(O)c(OC)c1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1.Rouabhi R, Berrebbah H, Djebar MR. Evaluation of toxicity of two pesticides: flucycloxuron and diflubenzuron on a cellular model, Paramecium sp. Commun Agric Appl Biol Sci. 2006;71(2 Pt A):83-90.