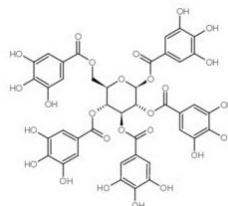


Product Name	: 1,2,3,4,6-O-Pentagalloylglucose
Synonyms	: Pentagalloylglucose; DB-03208; DB 03208
Cat No.	: M18051
CAS Number	: 14937-32-7
Molecular Formula	: C41H32O26
Formula Weight	: 940.68
Chemical Name	: Beta-1,2,3,4,6-Penta-O-Galloyl-D-Glucopyranose



	1, 2, 3, 4, 6-Pentagalloylglucose and gallic acid from Pistacia lentiscus have antimutagenic and antioxidant activities. 2. 1, 2, 3, 4, 6-Penta-O-galloyl-beta-D-glucose (PGG) possesses potent anti-proliferative and anti-invasive effects, it also has inhibition of inducible nitric oxide synthase and cyclooxygenase-2 activity. 3. PGG may serve as a model for the development of new types of anti-diabetic and anti-metabolic syndrome therapeutics. 4. 1, 2, 3, 4, 6-Penta-O-galloyl-beta-D-glucose has vasodilatory and anti-inflammatory effects, it dilates vascular smooth muscle and suppresses the vascular inflammatory process via endothelium-dependent nitric oxide (NO)/cGMP signaling. 5. 1, 2, 3, 4, 6-Penta-O-galloyl-beta-D-glucose can decrease the level of extracellular hepatitis B virus (HBV) (IC ₅₀ , 1. microg/ml) in a dose-dependent manner, it also can reduce the HBsAg level by 25% at a concentration of 4 microg/ml; the gallate structure of PGG may play a critical role in the inhibition of anti-HBV activity, suggests that PGG could be a candidate for developing an anti-HBV agent. 6. 1, 2, 3, 4, 6-Penta-O-galloyl-beta-D-glucose has anti-parasitic activity, displays an EC ₅₀ value of 67 μM, at least 6.6-fold more effective than the standard drug benznidazole against trypomastigote forms of T. cruzi.
Description	:
Pathway	: Others
Target	: Antioxidant
Receptor	: Others
Solubility	: DMSO : 50 mg/mL 53.15 mM; H ₂ O : 6 mg/mL 6.38 mM;
SMILES	: <chem>c1c(cc(c(c1O)O)OC(=O)OC[C@@H]1[C@H]([C@@H]([C@H]([C@H]1O)OC(=O)c1cc(c(c(c1)O)O)O)OC(=O)c1cc(c(c(c1)O)O)O)OC(=O)c1cc(c(c(c1)O)O)O)OC(=O)c1cc(c(c(c1)O)O)O)</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Abdelwahed A, et al. Chem Biol Interact. 2007 Jan 5;165(1):1-13.