Product Data Sheet

Product Name: Prunetrin
Cat. No.: GC61218

Chemical Properties

Cas. No.	154-36-9		
SMILES	O=C1C(C(OC=C1C(C=C2)=CC=C2O[C@@H]([C@@H]([C@H]3O)O)O[C@@H]([C@H]3O)CO)=CC(OC)=C4)=C4O		
Formula	$C_{22}H_{22}O_{10}$	M.Wt	446.4
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Prunetrin		

Background

Prunetin (Trifoside), an O-methylated isoflavone found in Prunus yedoensis, possesses anti-inflammatory activities[1][2].

Prunetin inhibits LPS-induced nitric oxide and prostaglandin E2 production through the suppression of iNOS and COX-2 at the transcriptional level[1].Prunetin inhibits lipopolysaccharide-induced inflammatory cytokine production and MUC5AC expression by inactivating the TLR4/MyD88 pathway in human nasal epithelial cells[2].

[1]. Yang G, et al. Anti-inflammatory effect of prunetin via the suppression of NF-κB pathway. Food Chem Toxicol. 2013;58:124-132. [2]. Hu H, et al. Prunetin inhibits lipopolysaccharide-induced inflammatory cytokine production and MUC5AC expression by inactivating the TLR4/MyD88 pathway in human nasal epithelial cells. Biomed Pharmacother. 2018;106:1469-1477.

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