Product Data Sheet

Product Name: Ginsenoside F4
Cat. No.: GC36137

Chemical Properties

Cas. No.	181225-33-2		
SMILES	C[C@]12[C@]3([C@@]([C@H](O)C[C@]1([H])[C@@]4([C@@](C(C)([C@@H](O)CC4)C)([H])[C@@H](O[C@@]5([H])[C@@H]([C@H]([C@H](O)[C@@H](CO)O5)O)O[C@@]6([H])[C@@H]([C@@H]([C@@H](O)[C@H](C)O6)O)O)C2)C)([H])[C@@H](/C(C)=C/C/C=C(C)/C)CC3)C		
Formula	$C_{42}H_{70}O_{12}$	M.Wt	767
Solubility	DMSO : 50 mg/mL (65.19 mM; Need ultrasonic)	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	Ginsenoside F4		

Background

Ginsenoside F4 (GF4), ginseng saponinis, isolated from notoginseng or red ginseng. Ginsenoside F4 (GF4) has inhibitory effect on human lymphocytoma JK cell by inducing its apoptosis[1].Ginsenoside F4 (GF4) inhibits matrix metalloproteinase 13 (MMP 13) expression in IL-1β-treated chondrocytes and blocks cartilage breakdown in rabbit cartilage tissue culture, shows therapeutic potential for preventing cartilage collagen matrix breakdown in diseased tissues[2].

[1]. Chen B, et al. The apoptosis-inducing effect of ginsenoside F4 from steamed notoginseng on human lymphocytoma JK cells. Nat Prod Res. 2013;27(24):2351-4. [2]. Lee JH, et al. Ginsenosides from Korean red ginseng inhibit matrix metalloproteinase-13 expression in articular chondrocytes and prevent cartilage degradation. Eur J Pharmacol. 2014 Feb 5;724:145-51.

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