Product Data Sheet

Product Name:	Verproside
Cat. No.:	GC37898

Chemical Properties

Cas. No.	50932-20-2		
SMILES	OC1=C(O)C=CC(C(O[C@@H]2[C@H]3[C@@](O3)(CO)[C@@]([C@@]2([H])C=CO4)([H])[C@@H]4O[C@]5([H])O[C@H](CO)[C@@H](O)[C@H](O)[C@H]5O)=O)=C1		
Formula	$C_{22}H_{26}O_{13}$	M.Wt	498.43
Solubility	Soluble in DMSO	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	Verproside		

Background

Verproside, a catalpol derivative iridoid glycoside isolated from the genus Pseudolysimachion, represses TNF-α -induced MUC5AC expression by inhibiting NF-κB activation via the IKK/IκB signaling cascade. Verproside has potent anti-inflammatory, antioxidant, antinociceptive activities and ir is a potent anti-asthmatic/COPD drug candidate in vivo[1]. NF-κB TNF-α IKK

Verproside (2.5-20 μM; for 2 hours) markedly reduces phosphorylation levels of IKKα/β, IκBα, and TAK1 in the 5-20 μM range[1]. Western Blot Analysis[1] Cell Line: NCI-H292 cells

Verproside (Intragastrically; 30 mg/kg; 48 hours) significantly reduces the immunoglobulin E (IgE) levels of verproside-treated mice[2]. Animal Model: Specific pathogen-free female BALB/c mice aged 8-10 weeks[2]

[1]. Lee SU, et al. Verproside inhibits TNF-α-induced MUC5AC expression through

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suppression of the TNF-α/NF-κB pathway in human airway epithelial cells. Cytokine. 2016 Jan;77:168-75. [2]. Oh SR, et al. Suppressive effect of verproside isolated from Pseudolysimachion longifolium on airway inflammation in a mouse model of allergic asthma. Int Immunopharmacol. 2006 Jun;6(6):978-86. Epub 2006 Feb 10.

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