Product Data Sheet

Product Name: Isoastilbin
Cat. No.: GC60206

Chemical Properties

Cas. No.	54081-48-0		
SMILES	O[C@H]([C@@H]([C@@H](O)[C@H](C)O1)O)[C@]1([H])O[C@H]2[C@@H](C3=CC(O)=C(O)C=C3)OC4=CC(O)=CC(O)=C4C2=O		
Formula	$C_{21}H_{22}O_{11}$	M.Wt	450.39
Solubility		Storage	
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	Isoastilbin		

Background

Isoastilbin is a dihydroflavonol glycoside compound in Rhizoma Smilacis glabrae and Astragalus membranaceus. Isoastilbin inhibits glucosyltransferase (GTase) with an IC50 value of 54.3 μg/mL, and also inhibits tyrosinase activity. Isoastilbin shows neuroprotective, antioxidation, antimicrobial and anti-apoptotic properties and has the potential for Alzheimer's disease research[1][21][3].

[1]. Hong Yu, et al. Protective Roles of Isoastilbin Against Alz heimer's Disease via Nrf2-mediated Antioxidation and anti?apoptosis. Int J Mol Med. 2019 Mar;43(3):1406-1416.
[2]. Harlinda Kuspradini, et al. Antimicrobial activity against Streptococcus sobrinus and glucosyltransferase inhibitory activity of taxifolin and some flavanonol rhamnosides from kempas (Koompassia malaccensis) extracts. J. Wood Sci., 2009, 55(4):308-13. [3]. Batubara, Irmanida, et al. Anti-acne and Tyrosinase Inhibition Properties of Taxifolin and Some Flavanonol Rhamnosides from Kempas. Wood Research Journal ,2010, 1(1):45-9.

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