Product Data Sheet

Product Name: SL 0101-1
Cat. No.: GC16313

Chemical Properties

Cas. No.	77307-50-7		
Chemical Name	(2S,3S,4S,5R,6S)-6-((5,7-dihydroxy-2-(4-hydroxyphenyl)-4-oxo-4H-chromen-3-yl)oxy)-5-hydroxy-2-methyltetrahydro-2H-pyran-3,4-diyl diacetate		
SMILES	C[C@@]1([H])[C@@](OC(C)=O)([H])[C@](OC(C)=O)([H])[C@](O)([H])[C@@](OC(C(C2=C(O)C=C(O)C=C2O3)=O)=C3C4=CC=C(O)C=C4)([H])O1		
Formula	$C_{25}H_{24}O_{12}$	M.Wt	516.46
Solubility	DMF: 0.33 mg/ml,DMSO: 0.16 mg/ml	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	SL 0101-1		

Background

SL 0101-1 (SL0101), a kaempferol glycoside, isolated from the tropical plant F. refracta, is a cell-permeable, selective, reversible, ATP-competitive p90 Ribosomal S6 Kinase (RSK) inhibitor, with an IC50 of 89 nM. Shows proliferation inhibition in human breast cancer cell line MCF-7 and produces a cell cycle block in G1 phase[1].

References:
[1]. Smith JA, et al. Identification of the first specific inhibitor of p90 ribosomal S6 kinase (RSK) reveals an unexpected role for RSK in cancer cell proliferation. Cancer Res. 2005 Feb 1;65(3):1027-34.

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