

(3R,5R)-3,5-Dihydroxy-1,7-bis(3,4-dihydroxyphenyl)heptane 3-O-β-D-glucopyranoside

Chemical Properties

CAS No. :	408324-05-0
Formula:	C ₂₅ H ₃₄ O ₁₁
Molecular Weight:	510.54
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	(3R,5R)-3,5-Dihydroxy-1,7-bis(3,4-dihydroxyphenyl)heptane 3-O-β-D-glucopyranoside is a diarylheptane glycoside extracted from Tacca plantaginea. This compound significantly inhibits TNF-α-induced NF-κB transcriptional activity with an IC ₅₀ of 9.4 μM and notably activates PPAR transcriptional activity with an EC ₅₀ of 9.9 μM, showing specific activation of PPARβ(δ) with an EC ₅₀ of 23.1 μM. At the tested concentrations, it is non-toxic to cells and can be applied in research related to inflammatory diseases.
Targets(IC ₅₀)	NF-κB,PPAR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9587 mL	9.7936 mL	19.5871 mL
5 mM	0.3917 mL	1.9587 mL	3.9174 mL
10 mM	0.1959 mL	0.9794 mL	1.9587 mL
50 mM	0.0392 mL	0.1959 mL	0.3917 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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