
Product Data Sheet

Product Name: Digoxigenin Monodigitoxoside

Cat. No.: GC18455

Chemical Properties

Cas. No. 5352-63-6

Chemical Name (3 β ,5 β ,12 β)-3-[(2,6-dideoxy- β -D-ribo-hexopyranosyl)oxy]-12,14-dihydroxy-card-20(22)-enolide

SMILES C[C@@]12[C@@](CC[C@]3([H])[C@]2([H])C[C@@H](O)[C@@]4(C)[C@]3(O)CC[C@@H]4C(CO5)=CC5=O)([H])C[C@@H](O[C@]6([H])O[C@H](C)[C@@H](O)[C@@H](O)C6)CC1

Formula C₂₉H₄₄O₈

M.Wt 520.7

Solubility DMSO : 100 mg/mL (192.07 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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 **Background**

Digoxigenin monodigitoxoside is a Na⁺/K⁺-ATPase inhibitor and cardiac glycoside metabolite of digoxin . It has a binding affinity of 0.829 and an inhibitory potency of 1.07 relative to [3H]ouabain in a competitive binding assay using purified lamb Na⁺/K⁺-ATPase and for its ATPase activity, respectively. Digoxigenin monodigitoxoside is selective for the α 3 β 1 isoform over α 1 β 1 and α 2 β 1 (Kds = 31.8, 65, and 35 nM, respectively). Digoxigenin monodigitoxoside produces a more potent inotropic response in perfused guinea pig hearts than digoxin with 60 and 46% increases in inotropy, respectively.

Caution: Product has not been fully validated for medical applications. For research use only.

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