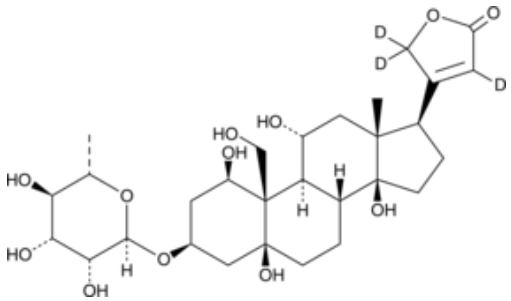
Product Data Sheet

Product Name: Ouabain-d3
Cat. No.: GC91439

Chemical Properties

Cas. No.			
Formula	$C_{29}H_{41}D_3O_{12}$	M.Wt	587.7
Solubility	Methanol: Slightly soluble,Water: Slightly soluble	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

Ouabain-d3 is intended for use as an internal standard for the quantification of ouabain by GC- or LC-MS. Ouabain is a cardiac glycoside that has been found in S. gratus and has diverse biological activities.1,2,3,4,5,6,7 It inhibits the Na+/K+-ATPase isoforms α1β1 and α2β1 and human-ether-a-go-go (hERG), also known as Kv11.1 (IC50s = 97, 90, and 15.2 nM, respectively).2,3 Ouabain reduces the proliferation of PC3 prostate cancer and U937 lymphoma cells (EC50s = 210 and 94 nM, respectively).4 It inhibits the cytopathic effect of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in infected Vero cells (IC50 = 5 Ouabain (~8 µg/animal) increases systolic blood pressure in normotensive rats.6 It has been used to induce ventricular arrythmias in vivo.7 Formulations containing ouabain have been used in the treatment of atrial fibrillation, atrial flutter, and heart failure.

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