

Product datasheet

Ouabain octahydrate, Na⁺/K⁺ ATPase inhibitor

ab120748

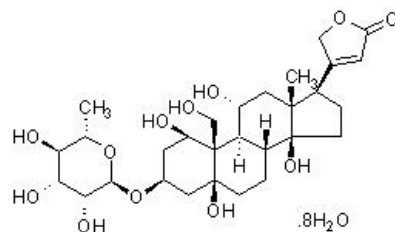
[1 References](#) [1 Image](#)

Overview

Product name	Ouabain octahydrate, Na ⁺ /K ⁺ ATPase inhibitor
Description	Na ⁺ /K ⁺ ATPase inhibitor
Biological description	Na ⁺ /K ⁺ ATPase inhibitor (K _i = 30 μM). Cardiac glycoside. Stimulates activity at low nanomolar concentrations in rats. Improves cardiac function in myocardial infarction rats. Centrally active following oral administration.
Purity	> 97%
General notes	It has been reported that an aqueous solution of this material stored overnight in a borosilicate glass vial leads to the formation of ouabain-borate complexes. It is therefore recommended that this material is stored in a plastic vial and any contact with borosilicate glass is minimised.

CAS Number 11018-89-6

Chemical structure



Properties

Chemical name	(1β,3β,5β,11α)-3-[(6-Deoxy-α-L-mannopyranosyl)oxy]-1,5,11,14,19-pentahydroxycard-20(22)-enolide
Molecular weight	728.78
Molecular formula	C ₂₉ H ₄₄ O ₁₂ ·8H ₂ O
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM, in ethanol to 10 mM and in water to 10 mM.
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in

tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

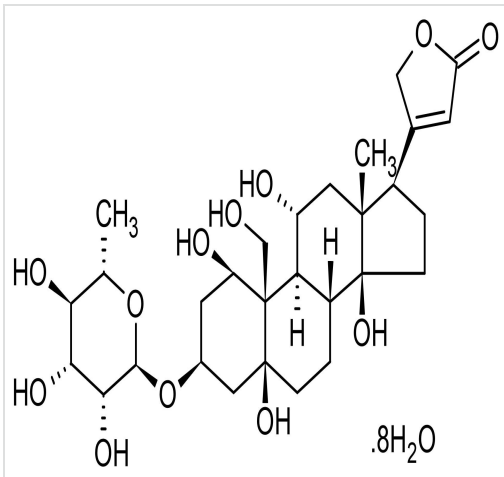
Toxic, refer to SDS for further information

Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.

Source

ripe seeds of African plants Strophanthus gratus and the bark of Acokanthera ouabaio

Images



2D chemical structure image of ab120748, Ouabain octahydrate, Na⁺/K⁺ ATPase inhibitor

Chemical Structure - Ouabain octahydrate, Na⁺/K⁺ ATPase inhibitor (ab120748)

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