



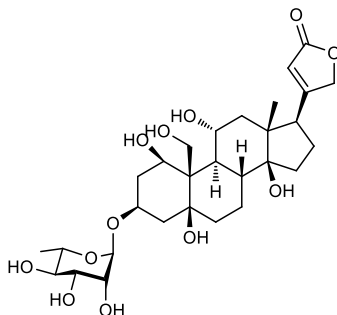
## Catalog # 10-1248

### Ouabain

CAS# 11018-89-6

3-[(6-Deoxy- $\alpha$ -L-mannopyranosyl)oxy]-1,5,11 $\alpha$ ,14,19-pentahydroxycard-20(22)-enolide octahydrate

Lot # X101251



Selective inhibitor of Na<sup>+</sup> K<sup>+</sup>-ATPase isolated from *Strophanthus gratus*<sup>1</sup>. Endogenous ouabain is found in human circulation<sup>2</sup>. Displays cardiotonic and diuretic activity. May be used to induce hypertensive rat model<sup>3</sup>. Cell permeable and active *in vivo*.

- 1) Silva *et al.* (2012), *New insights into the regulation of Na<sup>+</sup>,K<sup>+</sup>-ATPase by ouabain*; Int. Rev. Cell. Mol. Biol., **294** 99
- 2) Dvela *et al.* (2012), *Endogenous ouabain regulates cell viability*; Am. J. Physiol. Cell, Physiol., **302** C442
- 3) Zhang *et al.* (2009), *Low-dose ouabain constricts small arteries from ouabain-hypertensive rats: implications for sustained elevation of vascular resistance*; Curr. Opin. Cell Biol., **297** H1140

### PHYSICAL DATA

Molecular Weight: 728.78  
Molecular Formula: C<sub>29</sub>H<sub>44</sub>O<sub>12</sub> · 8H<sub>2</sub>O  
Purity: 99% by TLC  
NMR: (Conforms)  
Solubility: DMSO (up to 50 mg/ml) or Water (up to 10 mg/ml)  
Physical Description: White solid  
Storage and Stability: Store as supplied at -20°C for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO or water may be stored at -20°C for up to 3 months

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