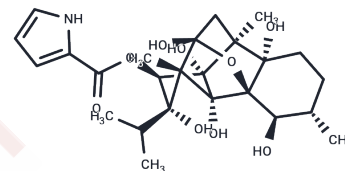


Ryanodine

Chemical Properties

CAS No. :	15662-33-6
Formula:	C ₂₅ H ₃₅ NO ₉
Molecular Weight:	493.553
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Ryanodine, a diterpenoid poison derived from <i>Ryania speciosa</i> , acts as a modulator of the ryanodine receptor, which is permeable to cells. Depending on its concentration, ryanodine can either stimulate or inhibit Ca ²⁺ release mediated by these receptors.
Targets(IC ₅₀)	Others
In vivo	At concentrations above 250 nM, ryanodine induces a slowly developing, dose dependent contracture which could not be blocked by 5 mMCo ₂ +[1].Ryanodine (100-5000 nM, 30-120 minutes) irreversibly depresses twitch and tetanic tension of both fast and slow muscle in a dose-related manner[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0261 mL	10.1307 mL	20.2614 mL
5 mM	0.4052 mL	2.0261 mL	4.0523 mL
10 mM	0.2026 mL	1.0131 mL	2.0261 mL
50 mM	0.0405 mL	0.2026 mL	0.4052 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.

Reference

- Meissner G, et al. Ryanodine activation and inhibition of the Ca²⁺ release channel of sarcoplasmic reticulum. J Biol Chem. 1986 May 15;261(14):6300-6.
- Fryer MW, et al. The action of ryanodine on rat fast and slow intact skeletal muscles. J Physiol. 1989 Jul;414:399-413.

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