Ryanodine (high purity)

Ca^{2+} channel activator

Induces the release of intracellular Ca^{2+} . Ryanodine receptors mediate adenine nucleotide, Ca^{2+} and caffeine-sensitive release of Ca^{2+} from sarcoplasmic reticulum of cardiac and skeletal muscle and may also mediate intracellular Ca^{2+} release in neurons. Biphasic effect on sarcoplasmic reticulum calcium channels; Nanomolar levels open the channel and micromolar levels close it.

Citations: 27 View Online »

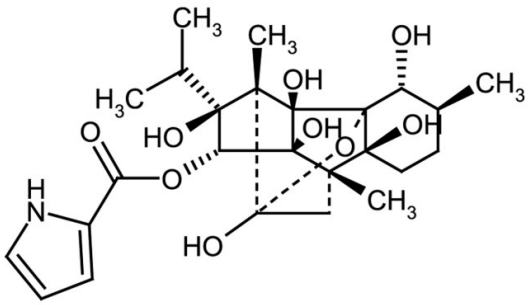
Ordering Information

Order Online »

ALX-630-062-M001	1mg
ALX-630-062-M005	5mg

Manuals, SDS & CofA

View Online »


CH3
CH3
OH
H3C
OH
CH3
HO
OH
OH
O
O
H
N
CH3
HO

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	White to off-white solid.
CAS	15662-33-6
Couple Target	Calcium channel
Couple Type	Activator
Formula	$C_{25}H_{35}NO_9$
MI	**14:** 8307
MW	493.5
Purity	≥99% (HPLC)
RTECS	VM4025000
Solubility	Soluble in methanol or DMSO (>29mg/ml), in 100% ethanol (16mg/ml); slightly soluble in water (warm).
Source	Isolated from *Ryania speciosa*, *Flacourtiaceae*.

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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