# abcam

### Product datasheet

## Ryanodine, Ca2+ release modulator ab120083

37 References 2 图像

概述

产**品名称** Ryanodine, Ca2+ release modulator

描述 Ca<sup>2+</sup> release modulator

生物学描述 Alkaloid that binds with high affinity to ryanodine receptors to modulate intracellular Ca<sup>2+</sup> release.

Has complex actions and may stimulate or inhibit Ca<sup>2+</sup> release, depending on the concentration

used.

**CAS编号** 15662-33-6

化学结构

NH H<sub>0</sub>C HO OH OH OH CH<sub>3</sub>

性能

化学名称 1H-Pyrrole-2-carboxylic acid (3S,4R,4aR,6S,7S,8R,8aS,8bR,9S,9aS)-dodecahydro-

4,6,7,8a,8b,9a-hexahydroxy-3,6a,9-trimethyl-7-(1-methylethyl)-6,9-methanobenzo[1,2]

pentaleno[1,6-bc]furan-8-yl ester

分子量 493.55

**分子式** C<sub>25</sub>H<sub>35</sub>NO<sub>9</sub>

PubChem识别号 5114

**存放说明** Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12

months.

溶解度概述 Soluble in ethanol to 10 mM

处理 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

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#### questions (FAQ) page for more details.

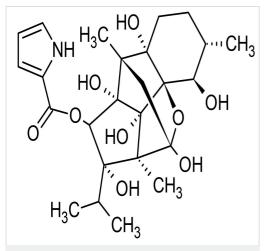
CC(C)[C@@]6(O)C(OC(=O)c1cccn1)[C@]2(O)[C@@]5(O)[C@@]34O[C@@](O)(C[C@@]2(C))C(C)[C@@]2(C)[C@@]2(O)[C@@]2(O)[C@@]34O[C@@](O)(C[C@@]2(C))C(C)[C@@]2(O)[C@@]2(O)[C@@]2(O)[C@@]34O[C@@](O)(C[C@@]2(C))C(C)[C@@]2(O)[C@]AU(O)[C

[C@@]4(O)CC[C@H](C)[C@H]3O)[C@]56C

来源 Ryania speciosa

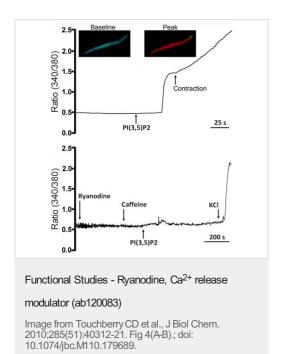
#### 图片

**SMILES** 



Chemical Structure - Ryanodine, Ca2+ release modulator (ab120083)

2D chemical structure image of ab120083, Ryanodine, Ca2+ release modulator



Ryanodine inhibits the elevation of intracellular Ca2+ by PI(3,5)P2 in primary cardiac myocytes. Top figure shows fura-2 ratiometric changes in intracellular Ca2+ in an isolated ventricular adult cardiac myocyte after treatment with PI(3,5)P2, ultimately resulting in contraction. Bottom figure shows that ryanodine inhibited the release of SR Ca2+ to both caffeine and PI(3,5)P2.

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