

Ryanodine, Ca²⁺ release modulator ab120083

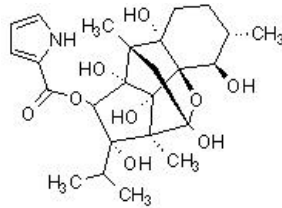
[37 References](#) [画像数 2](#)

製品の概要

製品名	Ryanodine, Ca ²⁺ release modulator
製品の詳細	Ca ²⁺ release modulator
生理活性の詳細	Alkaloid that binds with high affinity to ryanodine receptors to modulate intracellular Ca ²⁺ release. Has complex actions and may stimulate or inhibit Ca ²⁺ release, depending on the concentration used.

CAS 番号 15662-33-6

構造式



製品の特性

体系名	1 <i>H</i> -Pyrrole-2-carboxylic acid (3 <i>S</i> ,4 <i>R</i> ,4 <i>aR</i> ,6 <i>S</i> ,7 <i>S</i> ,8 <i>R</i> ,8 <i>aS</i> ,8 <i>bR</i> ,9 <i>S</i> ,9 <i>aS</i>)-dodecahydro-4,6,7,8 <i>a</i> ,8 <i>b</i> ,9 <i>a</i> -hexahydroxy-3,6 <i>a</i> ,9-trimethyl-7-(1-methylethyl)-6,9-methanobenzo[1,2]pentaleno[1,6- <i>bc</i>]furan-8-yl ester
分子量	493.55
分子式	C ₂₅ H ₃₅ NO ₉
PubChem 登録番号	5114
保存方法	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in ethanol to 10 mM
使用に関する注意	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.

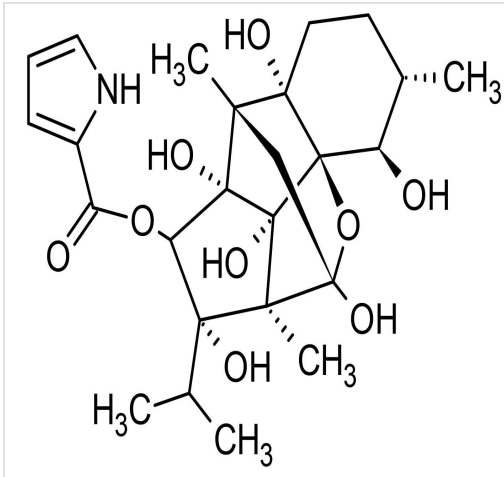
SMILES 線形表記

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CC(C)[C@@]6(O)C(OC(=O)c1cccn1)[C@]2(O)[C@@]5(O)[C@@]34O[C@@](O)(C[C@@]2(C)[C@@]4(O)CC[C@H](C)[C@H]3O)[C@]56C
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由来

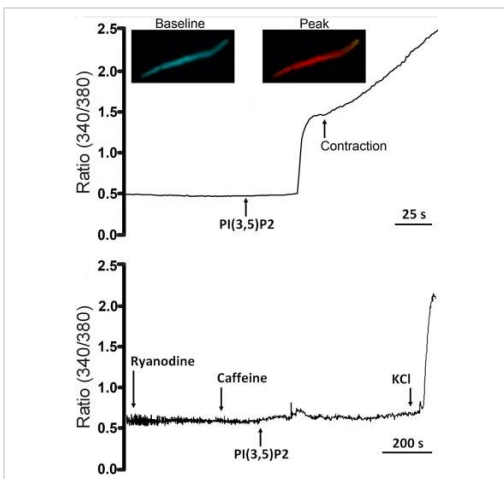
Ryania speciosa

画像



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

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



Functional Studies - Ryanodine, Ca²⁺ release modulator (ab120083)

Image from Touchberry CD et al., J Biol Chem. 2010;285(51):40312-21. Fig 4(A-B).; doi: 10.1074/jbc.M110.179689.

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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