

Ruthenium red, Ca²⁺ signaling inhibitor ab120264

[6 References](#) [1 Image](#)

Overview

Product name	Ruthenium red, Ca ²⁺ signaling inhibitor
Description	Ca ²⁺ signaling inhibitor
Biological description	Ca ²⁺ signaling inhibitor. Inhibits mitochondrial Ca ²⁺ uniporter, Ca ²⁺ -ATPase, troponin C and calmodulin. Blocks intracellular Ca ²⁺ release by ryanodine receptor from internal stores. Attenuates capsaicin-induced cation channel opening. Inhibits Ca ²⁺ -induced Ca ²⁺ release from ryanodine-sensitive intracellular Ca ²⁺ stores. Blocks large-conductance Ca ²⁺ -activated potassium channels
CAS Number	11103-72-3
Chemical structure	<chem>[(NH3)5RuORu(NH3)4ORu(NH3)5]Cl6</chem>

Properties

Chemical name	Ammoniated ruthenium oxychloride
Molecular weight	786.35
Molecular formula	H ₄₂ N ₁₄ O ₂ Ru ₃ Cl ₆
PubChem identifier	16218584
Storage instructions	Store at Room Temperature. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 10 mM
Handling	<p>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.</p> <p>Refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	N.N.N.N.N.N.N.N.N.N.N.N.N.N.N.N.O.O.[Cl-].[Cl-].[Cl-].[Cl-].[Cl-].[Cl-].[Ru+2].[Ru+2].[Ru+2]
Source	Synthetic

Images



Chemical Structure - Ruthenium red, Ca²⁺ signaling inhibitor (ab120264)

2D chemical structure image of ab120264, Ruthenium red, Ca²⁺ signaling inhibitor

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