

Produktinformation



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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Product Information



Ruthenium Red

Item No. 14339

CAS Registry No.: 11103-72-3

Ammoniated Ruthenium Oxychloride, Synonyms:

C.L. 77800

MF: H₄₂N₁₄O₂Ru₃ • 6Cl

FW:

Stability: ≥2 years at -20°C Supplied as: A crystalline solid NH₃ NH₃ NH₃ NH₃ NH₃ NH₃

NH₃ NH₃ NH₃ NH₃ NH₃ NH₃

Laboratory Procedures

For long term storage, we suggest that ruthenium red be stored as supplied at -20°C. It should be stable for at least two years.

Ruthenium red is supplied as a crystalline solid. The solubility of ruthenium red in water is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Ruthenium red is a polycationic dye that inhibits sarcoplasmic reticulum Ca²⁺ release, blocks Ca²⁺ uptake and release from mitochondria, and prevents Ca²⁺ release from ryanodine-sensitive intracellular stores in skeletal and cardiac muscle (K,s = 16 nM - 5.9 μM, depending on Ca²⁺ concentration). Additionally, ruthenium red binds to anionic sites of cellular components, predominantly to surface glycoconjugates, and can be used as a marker of negative binding sites related to cellular transport, barrier, or receptor functions.²

References

- 1. Xu, L., Tripathy, A., Pasek, D.A., et al. Ruthenium red modifies the cardiac and skeletal muscle Ca²⁺ release channels (ryanodine receptors) by multiple mechanisms. J. Biol. Chem. 274(46), 32680-32691 (1999).
- 2. El-Saggan, A.H. and Uhrík, B. Improved staining of negative binding sites with ruthenium red on cryosections of frozen cells. Gen. Physiol. Biophys. 21, 457-461 (2002).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14339

WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within

thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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