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DATASHEET

Cesium methanesulfonate (CsMeSo3)

Product overview

Name Cesium methanesulfonate (CsMeSo3)

Cat No HB8497
Biological action Buffer
Purity >98%

Description Used in internal/ intracellular solutions for patch clamp electrophysiology

Biological Data

Biological description Used in internal/ intracellular solutions for patch clamp electrophysiology. Blocks K⁺ channels to act as

a current carrier while methanesulfonate is not transported through Cl⁻ channels.

Solubility & Handling

Solubility overview Soluble in water Storage instructions Room temperature

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

Molecular Weight228Molecular FormulaCH3CsO3SCAS Number2550-61-0PubChem identifier5148066

 $\textbf{SMILES} \qquad \qquad CS(=O)(=O)[O-].[Cs+]$

InChi InChi=1S/CH4O3S.Cs/c1-5(2,3)4;/h1H3,(H,2,3,4);/q;+1/p-1

InChiKey DJKJXRLREATOMF-UHFFFAOYSA-M

References

Common components of patch-clamp internal recording solutions can significantly affect protein kinase A activity.

Vargas G et al (1999) Brain research 828 **PubMedID**10320738