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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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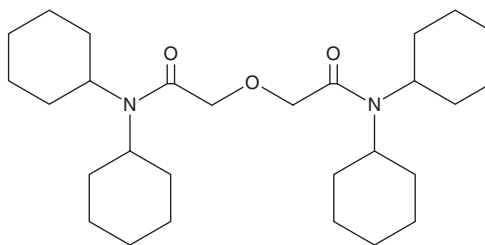
PRODUCT INFORMATION



Calcium Ionophore II

Item No. 37707

CAS Registry No.: 74267-27-9
Formal Name: 2,2'-oxybis[N,N-dicyclohexyl-acetamide]
Synonym: ETH 129
MF: C₂₈H₄₈N₂O₃
FW: 460.7
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Calcium ionophore II is supplied as a solid. A stock solution may be made by dissolving the calcium ionophore II in the solvent of choice, which should be purged with an inert gas. Calcium ionophore II is soluble in the organic solvent ethanol at a concentration of approximately 1 mg/ml.

Description

Calcium ionophore II is a neutral calcium ionophore.¹ It is selective for calcium over strontium, manganese, cobalt, nickel, zinc, lanthanum, sodium, potassium, and magnesium. Calcium ionophore II binds to calcium in a 1:3 (ligand:ion) ratio and induces calcium transport across artificial membranes and into rat liver mitochondria.² It induces sea urchin egg activation when used at a concentration of 100 pM. Calcium ionophore II has been used in the preparation of calcium-selective electrodes.³

References

1. Wang, E., Erdahl, W.L., Hamidinia, S.A., *et al.* Transport properties of the calcium ionophore ETH-129. *Biophys J.* **81**(6), 3275-3284 (2001).
2. Prestipino, G., Falugi, C., Falchetto, R., *et al.* The ionophore ETH 129 as Ca²⁺ translocator in artificial and natural membranes. *Anal. Biochem.* **210**(1), 119-122 (1993).
3. Park, S., Maier, C.S., and Koley, D. Anodic stripping voltammetry on a carbon-based ion-selective electrode. *Electrochim. Acta* **390**, 138855 (2021).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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