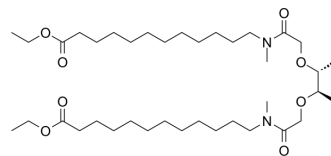


## Calcium ionophore I

Cat. No.:	HY-136460
CAS No.:	58801-34-6
Molecular Formula:	C <sub>38</sub> H <sub>72</sub> N <sub>2</sub> O <sub>8</sub>
Molecular Weight:	684.99
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Solution, -20°C, 2 years



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (145.99 mM; Need ultrasonic)
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (3.65 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.65 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (3.65 mM); Clear solution</li> </ol>

### BIOLOGICAL ACTIVITY

Description	Calcium ionophore I (ETH 1001) is a selective Ca <sup>2+</sup> ionophore for biological membranes. Calcium ionophore I can be used in Ca <sup>2+</sup> -selective microelectrodes that can be used for quantitative intracellular measurements of resting Ca <sup>2+</sup> -activities and of slowly changing Ca <sup>2+</sup> -levels <sup>[1][2]</sup> .
-------------	--

### REFERENCES

- [1]. T R Hinds, et al. The effect of ETH 1001 on ion fluxes across red blood cell membranes. Cell Calcium. 1985 Jun;6(3):265-79.
- [2]. D Ammann. Ca<sup>2+</sup>-selective microelectrodes. Cell Calcium. 1985 Apr;6(1-2):39-55.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA