



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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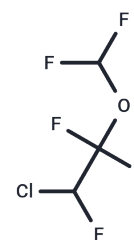
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## Enflurane

### Chemical Properties

|                   |                                                                                      |
|-------------------|--------------------------------------------------------------------------------------|
| CAS No. :         | 13838-16-9                                                                           |
| Formula:          | C <sub>3</sub> H <sub>2</sub> ClF <sub>5</sub> O                                     |
| Molecular Weight: | 184.49                                                                               |
| Appearance:       | no data available                                                                    |
| Storage:          | store at low temperature<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|               |                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Enflurane (Efrane), a volatile anaesthetic, is a potent inhibitor of high conductance Ca <sup>2+</sup> -activated K <sup>+</sup> channels of <i>Chara australis</i> . Enflurane is an internal standard in monitoring halogenated volatile anaesthetics by headspace gas chromatography-mass spectrometry. It allows rapid adjustments of anesthesia depth with little change in pulse or respiratory rate. |
| Targets(IC50) | Others                                                                                                                                                                                                                                                                                                                                                                                                      |

### Solubility Information

|            |                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 55 mg/ml (298.12 mM)<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|--------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 5.4203 mL | 27.1017 mL | 54.2035 mL |
| 5 mM  | 1.0841 mL | 5.4203 mL  | 10.8407 mL |
| 10 mM | 0.542 mL  | 2.7102 mL  | 5.4203 mL  |
| 50 mM | 0.1084 mL | 0.542 mL   | 1.0841 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

Andrade LA, Silla JM, Stephens SL, Marat K, da Cunha EF, Ramalho TC, van Wijngaarden J, Freitas MP.  
Conformational Exploration of Enflurane in Solution and in a Biological Environment. J Phys Chem A. 2015 Oct 29;

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