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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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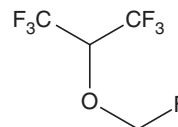
PRODUCT INFORMATION



Sevoflurane

Item No. 23996

CAS Registry No.: 28523-86-6
Formal Name: 1,1,1,3,3,3-hexafluoro-2-(fluoromethoxy)-propane
Synonyms: Fluoromethyl 1,1,1,3,3,3-Hexafluoroisopropyl ester, Fluoromethyl 1,1,1,3,3,3-Hexafluoro-2-propyl ester
MF: C₄H₃F₇O
FW: 200.1
Purity: ≥95%
Supplied as: A neat oil
Storage: -20°C
Stability: ≥1 year



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

Laboratory Procedures

Sevoflurane is supplied as a neat oil. A stock solution may be made by dissolving the sevoflurane in the solvent of choice. Sevoflurane is miscible in ethanol, DMSO, dimethyl formamide, and PBS (pH 7.2).

Description

Sevoflurane is a halogenated ether with anesthetic properties.¹ It enhances the activity of GABA_A and glycine receptors and inhibits the activity of nicotinic acetylcholine receptors (nAChRs) and glutamate receptors. Sevoflurane enhances the responses of α₂β₁ subunit-containing GABA_A and α₁ subunit-containing glycine receptors at submaximal agonist concentrations in HEK293 cells (EC₅₀s = 0.45 and 0.36 mM, respectively).² Sevoflurane (360 μM) also increases the amplitude of GABA_A receptor responses to GABA stimulation for receptors with an α₁β₂γ₂ subunit composition.³ It inhibits binding of the high affinity nicotinic agonist epibatidine to nAChRs in mouse brain membranes (IC₅₀ = 0.77 mM).⁴ Formulations containing sevoflurane have been used in the induction and maintenance of general anesthesia.

References

1. Campagna, J.A., Miller, K.W., Phil, D., *et al.* Mechanisms of actions of inhaled anesthetics. *N. Engl. J. Med.* **348(21)**, 2110-2124 (2003).
2. Krasowski, M.D. and Harrison, N.L. The actions of ether, alcohol and alkane general anaesthetics on GABA_A and glycine receptors and the effects of TM2 and TM3 mutations. *Br. J. Pharmacol.* **129(4)**, 731-743 (2000).
3. Nishikawa, K. and Harrison, N.L. The actions of sevoflurane and desflurane on the gamma-aminobutyric acid receptor type A: Effects of TM2 mutations in the alpha and beta subunits. *Anesthesiology* **99(3)**, 678-684 (2003).
4. Rada, E.M., Tharakan, E.C., and Flood, P. Volatile anesthetics reduce agonist affinity at nicotinic acetylcholine receptors in the brain. *Anesth. Analg.* **96(1)**, 108-111 (2003).

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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