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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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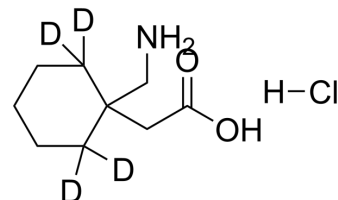
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Gabapentin-d₄ hydrochloride

Cat. No.:	HY-A0057AS2
Molecular Formula:	C ₉ H ₁₄ D ₄ ClNO ₂
Molecular Weight:	211.72
Target:	Isotope-Labeled Compounds; Calcium Channel
Pathway:	Others; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Gabapentin-d₄ hydrochloride is the deuterium labeled Gabapentin hydrochloride (HY-A0057A). Gabapentin hydrochloride is a potent, orally active P/Q type Ca²⁺ channel blocker. Gabapentin hydrochloride inhibits neuronal Ca²⁺ influx and reduction of neurotransmitter release. Gabapentin hydrochloride is a GABA analog that can be used to relieve neuropathic pain^{[1][2][3]}.

REFERENCES

- [1]. Fink K, et, al. Inhibition of neuronal Ca(2+) influx by gabapentin and subsequent reduction of neurotransmitter release from rat neocortical slices. Br J Pharmacol. 2000 Jun;130(4):900-6.
- [2]. Celikyurt IK, et, al. Gabapentin, A GABA analogue, enhances cognitive performance in mice. Neurosci Lett. 2011 Apr 1;492(2):124-8.
- [3]. Meymandi MS, et, al. Gabapentin action and interaction on the antinociceptive effect of morphine on visceral pain in mice. Eur J Anaesthesiol. 2008 Feb;25(2):129-34.

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

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