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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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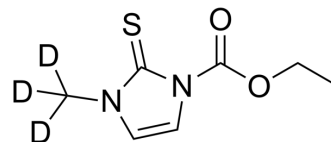
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Carbimazole-d₃

Cat. No.:	HY-W744953
Molecular Formula:	C ₇ H ₇ D ₃ N ₂ O ₂ S
Molecular Weight:	189.25
Target:	Isotope-Labeled Compounds; p38 MAPK
Pathway:	Others; MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Carbimazole-d₃ is deuterium labeled Carbimazole. Carbimazole is an orally active antithyroid agent which rapidly converts to Methimazole after absorption and prevents thyroid peroxidase enzyme from iodinating and coupling the tyrosine residues on thyroglobulin, hence reducing the production of thyroxine. Carbimazole also displays anti-inflammatory and neuronal-protective activities, suggesting its application for hyperthyroidism and neurological research^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Nakashima, T. and A. Taurog, Rapid conversion of carbimazole to methimazole in serum; evidence for an enzymatic mechanism. *Clin Endocrinol (Oxf)*, 1979. 10(6): p. 637-48.
- [3]. Lehane C, et al. Carbimazole is an inhibitor of protein synthesis and protects from neuronal hypoxic damage in vitro. *J Pharmacol Exp Ther*. 2013 Dec;347(3):781-93.
- [4]. H. Saeed, et al. Effects of Dose Level of Anti-thyroid Drug Carbimazole on Thermoregulation and Blood Constituents in Male Rabbits (*Oryctolagus cuniculus*). *Advances in Research*, 2014, 2(3), 129-144.

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

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