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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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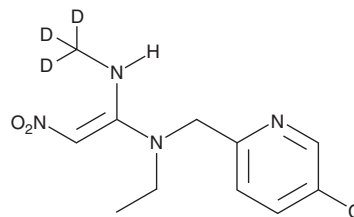
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PRODUCT INFORMATION



Nitenpyram-d₃ Item No. 26783

Formal Name: (1E)-N-[(6-chloro-3-pyridinyl)methyl]-N-ethyl-N'-methyl-d₃-2-nitro-1,1-ethenediamine
MF: C₁₁H₁₂ClD₃N₄O₂
FW: 273.7
Chemical Purity: ≥98% (Nitenpyram)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₃); ≤1% d₀
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Nitenpyram-d₃ is intended for use as an internal standard for the quantification of nitenpyram (Item No. 21271) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Nitenpyram-d₃ is supplied as a solid. A stock solution may be made by dissolving the nitenpyram-d₃ in the solvent of choice. Nitenpyram-d₃ is soluble in organic solvents such as methanol and DMSO, which should be purged with an inert gas.

Description

Nitenpyram is an agonist of insect nicotinic acetylcholine receptors (nAChRs) that does not act at mammalian nAChRs.¹ Nitenpyram is classified as a chloronicotinyl neonicotinoid and has high, short-term efficacy against fleas in dogs and cats when administered orally.² Formulations containing nitenpyram have been used to control sucking insects on crops and animals.^{1,2}

References

1. Tomizawa, M. and Casida, J.E. Selective toxicity of neonicotinoids attributable to specificity of insect and mammalian nicotinic receptors. *Annu. Rev. Entomol.* **48**, 339-364 (2003).
2. Vo, D.T., Hsu, W.H., Abu-Basha, E.A., *et al.* Insect nicotinic acetylcholine receptor agonists as flea adulticides in small animals. *J. Vet. Pharmacol. Ther.* **33(4)**, 315-322 (2010).

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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