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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

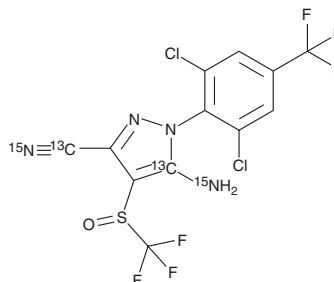
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PRODUCT INFORMATION



Fipronil-¹³C₂, ¹⁵N₂
Item No. 39587

Formal Name: 5-(amino-¹⁵N)-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-((trifluoromethyl)sulfinyl)-1H-pyrazole-5-¹³C-3-carbonitrile-¹³C-¹⁵N
MF: C₁₀[¹³C]₂H₄Cl₂F₆N₂[¹⁵N]₂OS
FW: 441.1
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Fipronil-¹³C₂, ¹⁵N₂ is supplied as a solid. A stock solution may be made by dissolving the fipronil-¹³C₂, ¹⁵N₂ in the solvent of choice, which should be purged with an inert gas. Fipronil-¹³C₂, ¹⁵N₂ is slightly soluble in methanol and sparingly soluble in DMSO.

Description

Fipronil-¹³C₂, ¹⁵N₂ is intended for use as an internal standard for the quantification of fipronil (Item No. 24128) by GC- or LC-MS. Fipronil is an insecticide that acts as a selective antagonist of insect GABA receptors (IC₅₀s = 28 and 1,660 nM for cockroach and rat receptors, respectively).¹ It also inhibits desensitizing and non-desensitizing glutamate-induced chloride currents in cockroach neurons (IC₅₀s = 800 and 10 nM, respectively). Fipronil induces activity of the cytochrome P450 (CYP) isoforms CYP1A1/2, CYP2B1/2, and CYP3A1/2 in isolated rat liver microsomes.² Formulations containing fipronil have been used as insecticides in veterinary care.

References

1. Narahashi, T., Zhao, X., Ikeda, T., *et al.* Glutamate-activated chloride channels: Unique fipronil targets present in insects but not in mammals. *Pestic. Biochem. Physiol.* **97**(2), 149-152 (2010).
2. Caballero, M.V., Ares, I., Martínez, M., *et al.* Fipronil induces CYP isoforms in rats. *Food Chem. Toxicol.* **83**, 215-221 (2015).

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.

WARRANTY AND LIMITATION OF REMEDY

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM