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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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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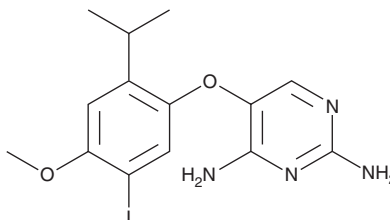
PRODUCT INFORMATION



AF-353

Item No. 23034

CAS Registry No.: 865305-30-2
Formal Name: 5-[5-iodo-4-methoxy-2-(1-methylethyl)phenoxy]-2,4-pyrimidinediamine
Synonym: Ro-4
MF: C₁₄H₁₇IN₄O₂
FW: 400.2
Purity: ≥98%
Supplied as: A crystalline 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

AF-353 is supplied as a crystalline solid. A stock solution may be made by dissolving the AF-353 in the solvent of choice. AF-353 is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 20 mg/ml.

Description

AF-353 is a noncompetitive dual antagonist of the purinoreceptors P2X₃ and P2X_{2/3} (IC₅₀s = 10 and 79.4 nM, respectively).^{1,2} It is selective for P2X₃ and P2X_{2/3} over P2X₁, P2X₂, P2X₄, P2X₅, and P2X₇ (IC₅₀ = >10 μM for all).² It inhibits calcium flux in CHO-K1 cells expressing the rat P2X₃ receptor and in 1321N1 cells expressing the human P2X₃ and P2X_{2/3} receptors (IC₅₀s = 8.91, 8.71, and 38.9 nM, respectively). AF-353 decreases the electrical signals in the detrusor, but not striated, muscle of the bladder in female rats.³

References

1. Carter, D.S., Alam, M., Cai, H., *et al.* Identification and SAR of novel diaminopyrimidines. Part 1: The discovery of RO-4, a dual P2X₃/P2X_{2/3} antagonist for the treatment of pain. *Bioorg. Med. Chem. Lett.* **19(6)**, 1628-1631 (2009).
2. Gever, J.R., Soto, R., Henningsen, R.A., *et al.* AF-353, a novel, potent and orally bioavailable P2X₃/P2X_{2/3} receptor antagonist. *Br. J. Pharmacol.* **160(6)**, 1387-1398 (2010).
3. Salazar, B.H., Hoffman, K.A., Zhang, C., *et al.* Electrical activity of the bladder is attenuated by intravesical inhibition of P2X_{2/3} receptors during micturition in female rats. *Int. Neurourol. J.* **21(4)**, 259-269 (2017).

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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