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Produktinformation

- Forschungsprodukte & Biochemikalien
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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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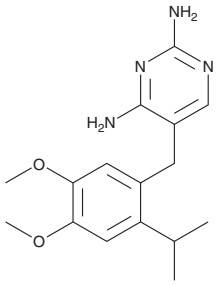
PRODUCT INFORMATION

RO-3

Item No. 29635

CAS Registry No.:	1026582-88-6
Formal Name:	5-[[4,5-dimethoxy-2-(1-methylethyl)phenyl]methyl]-2,4-pyrimidinediamine
MF:	$C_{16}H_{22}N_4O_2$
FW:	302.4
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

RO-3 is supplied as a crystalline solid. A stock solution may be made by dissolving the RO-3 in the solvent of choice, which should be purged with an inert gas. RO-3 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of RO-3 in these solvents is approximately 1, 12, and 20 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of RO-3 can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of RO-3 in PBS, pH 7.2, is approximately 0.2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

RO-3 is a dual antagonist of the purinergic receptor subtypes $P2X_3$ and $P2X_{2/3}$ (IC_{50}s = 0.1 and 1.26 µM, respectively).[1] It is selective for $P2X_3$ and $P2X_{2/3}$ over $P2X_1$, $P2X_2$, $P2X_4$, $P2X_5$, and $P2X_7$ receptors (IC_{50}s = >10 µM for all) but is an antagonist of ML_1-type melatonin receptors (IC_{50} = 0.398 µM).

Reference

1. Ford, A.P.D.W., Gever, J.R., Nunn, P.A., *et al.* Purinoceptors as therapeutic targets for lower urinary tract dysfunction. *Br. J. Pharmacol.* **147(Suppl. 2)**, S132-S143 (2006).

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