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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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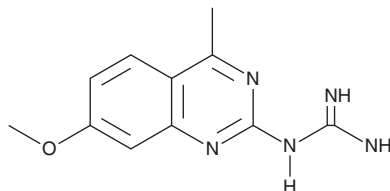
PRODUCT INFORMATION



MPO-IN-28

Item No. 37192

CAS Registry No.: 37836-90-1
Formal Name: N-(7-methoxy-4-methyl-2-quinazoliny)-guanidine
Synonyms: MPO Inhibitor 28, Myeloperoxidase Inhibitor 28
MF: C₁₁H₁₃N₅O
FW: 231.3
Purity: ≥98%
UV/Vis.: λ_{max}: 250 nm
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

MPO-IN-28 is supplied as a solid. A stock solution may be made by dissolving the MPO-IN-28 in the solvent of choice, which should be purged with an inert gas. MPO-IN-28 is slightly soluble in DMSO.

Description

MPO-IN-28 is an adenosine A_{2B} receptor antagonist (K_i = 2.15 μM in HEK293 cells expressing the human receptor).¹ MPO-IN-28 is also a neuropeptide Y-like receptor 7 (NPYLR7) agonist, inducing calcium mobilization in HEK293T human kidney cells expressing mosquito (*A. aegypti*) NPYLR7 receptors in a reporter assay when used at a concentration of 10 μM.² It inhibits blood-feeding behavior in *A. aegypti* mosquitos after dietary administration when used at a concentration of 100 μM. MPO-IN-28 also has been used as a synthetic intermediate in the synthesis of Gram-positive bacterial DNA polymerase III inhibitors with antibacterial activity.³

References

1. Webb, T.R., Lvovskiy, D., Kim, S.-A., *et al.* Quinazolines as adenosine receptor antagonists: SAR and selectivity for A_{2B} receptors. *Bioorg. Med. Chem.* **11(1)**, 77-85 (2003).
2. Duvall, L.B., Ramos-Espiritu, L., Barsoum, K.E., *et al.* Small-molecule agonists of *Ae. aegypti* neuropeptide Y receptor block mosquito biting. *Cell* **176(4)**, 687-701 (2019).
3. Guiles, J., Sun, X., Critchley, I.A., *et al.* Quinazolin-2-ylamino-quinazolin-4-ols as novel non-nucleoside inhibitors of bacterial DNA polymerase III. *Bioorg. Med. Chem. Lett.* **19(3)**, 800-802 (2009).

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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