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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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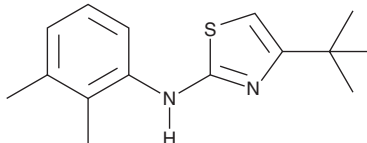
PRODUCT INFORMATION



O4I4

Item No. 42088

CAS Registry No.: 412008-21-0
Formal Name: 4-(1,1-dimethylethyl)-N-(2,3-dimethylphenyl)-2-thiazolamine
Synonym: Oct4-inducing Compound 4
MF: C₁₅H₂₀N₂S
FW: 260.4
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

O4I4 is supplied as a solid. A stock solution may be made by dissolving the O4I4 in the solvent of choice, which should be purged with an inert gas. O4I4 is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in acetonitrile.

Description

O4I4 is an inducer of octamer-binding transcription factor 4 (Oct4).¹ It is also an antagonist of chemokine (C-C motif) receptor 4 (CCR4; IC₅₀ = 0.26 μM).² O4I4 induces transactivation of Oct4 and Nanog in a reporter assays using NCCIT pluripotent stem cells.¹ It increases the lifespans of *C. elegans* and *Drosophila* when used at concentrations of 0.5 and 20 μM, respectively. O4I4, in combination with O4I3 and SOX2, Kruppel-like factor 4 (KLF4), L-Myc, and Lin28 (SKML), induces formation of three germ layers in teratomas in a mouse model of differentiation using human chemically induced PSCs.

References

1. Kang, H., Hasselbeck, S., Taškova, K., *et al.* Development of a next-generation endogenous OCT4 inducer and its anti-aging effect in vivo. *Eur. J. Med. Chem.* 257, 115513 (2023).
2. Wang, X., Xu, F., Xu, Q., *et al.* Optimization of 2-aminothiazole derivatives as CCR4 antagonists. *Bioorg. Med. Chem. Lett.* **16**(10), 2800-2803 (2006).

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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