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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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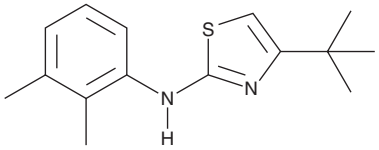
PRODUCT INFORMATION

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:	$C_{15}H_{20}N_2S$
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; IC_{50} = 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).

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