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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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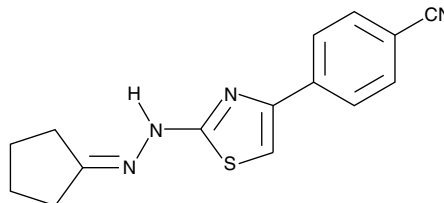
Product Information



Remodelin

Item No. 17346

CAS Registry No.: 949912-58-7
Formal Name: 4-[2-(2-cyclopentylidenehydrazinyl)-4-thiazolyl]-benzonitrile
MF: C₁₅H₁₄N₄S
FW: 282.4
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 280 nm



Laboratory Procedures

For long term storage, we suggest that remodelin be stored as supplied at -20°C. It should be stable for at least two years.

Remodelin is supplied as a crystalline solid. A stock solution may be made by dissolving the remodelin in the solvent of choice. Remodelin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of remodelin in these solvents is approximately 1, 15, and 30 mg/ml, respectively.

Remodelin is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Progeria is a genetic disorder that results in the appearance of premature aging. Genetically, progeria is characterized by a mutation in lamin A, which results in misshapen cell nuclei and DNA damage. Remodelin is a 2-thiazolylhydrazone derivative that, at 10 μM, improves nuclear architecture, chromatin organization, and survival of both cells lacking lamin A and cells from patients with progeria.¹ Remodelin is an inhibitor of N-acetyltransferase 10 (NAT10), which acetylates both histones and microtubules.¹ Mutation of NAT10 mimics the effects of remodelin on nuclear morphology, suggesting that these effects of remodelin require NAT10.¹ Remodelin also has cytotoxic effects against some species of the fungus *Candida*.²

References

1. Larrieu, D., Britton, S., Demir, M., *et al.* Chemical inhibition of NAT10 corrects defects of laminopathic cells. *Science* **344**(6183), 527-532 (2014).
2. Chimenti, F., Bizzarri, B., Maccioni, E., *et al.* Synthesis and in vitro activity of 2-thiazolylhydrazone derivatives compared with the activity of clotrimazole against clinical isolates of *Candida* spp. *Bioorg. Med. Chem. Lett.* **17**(16), 4635-4640 (2007).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17346

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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