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- Mindermengenzuschlag
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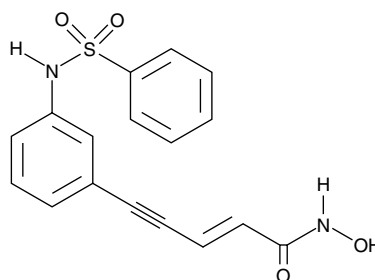
Product Information



Oxamflatin

Item No. 13176

CAS Registry No.: 151720-43-3
Formal Name: N-hydroxy-5-[3-[(phenylsulfonyl)amino]phenyl]-2E-penten-4-ynamide
Synonym: Metacept 3
MF: C₁₇H₁₄N₂O₄S
FW: 342.4
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that oxamflatin be stored as supplied at -20°C. It should be stable for at least two years. Oxamflatin is supplied as a crystalline solid. A stock solution may be made by dissolving the oxamflatin in the solvent of choice. Oxamflatin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of oxamflatin in ethanol, DMSO, and DMF is approximately 0.5, 5, and 10 mg/ml, respectively.

Oxamflatin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, oxamflatin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Oxamflatin has a solubility of approximately 0.1 mg/ml in a 1:10 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Oxamflatin is a potent inhibitor of histone deacetylases (IC₅₀ = 15.7 nM).¹ It has been shown to alter the expression of several genes whose products are involved in cell morphology, motility, apoptosis, and cell cycle control, reducing the proliferation of cancer cells.¹⁻³

References

1. Kim, Y.B., Lee, K.-H., Sugita, K., *et al.* Oxamflatin is a novel anti-tumor compound that inhibits mammalian histone deacetylase. *Oncogene* **18**, 2461-2470 (1999).
2. Peart, M.J., Tainton, K.M., Ruefli, A.A., *et al.* Novel mechanisms of apoptosis induced by histone deacetylase inhibitors. *Cancer Res.* **63**, 4460-4471 (2003).
3. Dear, A.E. and Medcalf, R.L. The novel anti-tumour agent oxamflatin differentially regulates urokinase and plasminogen activator inhibitor type 2 expression and inhibits urokinase-mediated proteolytic activity. *Biochim. Biophys. Acta* **1492**, 15-22 (2000).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13176

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

MATERIAL 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 Material Safety Data Sheet, which has been sent via email to your institution.

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