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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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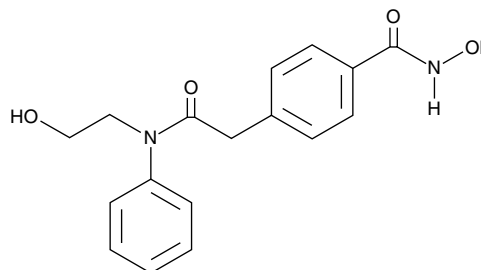
Product Information



HPOB

Item No. 15066

CAS Registry No.: 1429651-50-2
Formal Name: 4-[(hydroxyamino)carbonyl]-N-(2-hydroxyethyl)-N-phenylbenzeneacetamide
MF: C₁₇H₁₈N₂O₄
FW: 314.3
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 235 nm



Laboratory Procedures

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

HPOB is supplied as a crystalline solid. A stock solution may be made by dissolving the HPOB in the solvent of choice. HPOB is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of HPOB in these solvents is approximately 15, 20, and 10 mg/ml, respectively.

HPOB is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, HPOB should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. HPOB has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

HPOB is a potent inhibitor of histone deacetylase 6 (HDAC6; IC₅₀ = 56 nM).¹ It is at least 30-fold less effective against other HDACs.¹ Through its effects on HDAC6, HPOB induces acetylation of α-tubulin but not histones.¹ HPOB reduces the growth, but not the viability, of normal and transformed cells.¹ It enhances the death of transformed cells as triggered by the topoisomerase II inhibitors etoposide and doxorubicin.¹ HPOB enhances the cytotoxicity of the broad spectrum HDAC inhibitor SAHA (Item No. 10009929) against cancer cells in nude mice carrying an androgen-dependent CWR22 human prostate cancer xenograft.¹

Reference

1. Lee, J.-H., Mahendran, A., Yao, Y., *et al.* Development of a histone deacetylase 6 inhibitor and its biological effects. *Proc. Natl. Acad. Sci. USA* **110**(39), 15704-15709 (2013).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15066

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

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