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SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)



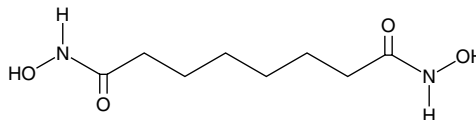
Product Information



Suberohydroxamic Acid

Item No. 10574

CAS Registry No.: 38937-66-5
Formal Name: N1,N8-dihydroxy-octanediamide
Synonyms: SBHA, Suberic *bis*-Hydroxamic Acid
MF: C₈H₁₆N₂O₄
FW: 204.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

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

SBHA is supplied as a crystalline solid. A stock solution may be made by dissolving the SBHA in the solvent of choice. SBHA is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of SBHA in DMSO is approximately 1.3 mg/ml and approximately 0.1 mg/ml in DMF.

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

Suberohydroxamic acid (SBHA) is a competitive histone deacetylase (HDAC) inhibitor that has been shown to inhibit HDAC1 (IC₅₀ = 0.25 μM) and HDAC3 (IC₅₀ = 0.30 μM).¹ SBHA causes cell differentiation, cell cycle arrest, or apoptosis.²⁻⁶ HDAC inhibitors, including SBHA, act synergistically to kill cancer cells when used in combination with cytostatic drugs, allowing lower doses of both inhibitors and drugs to be used.^{7,8}

References

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Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10574

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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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com