

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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PRODUCT INFORMATION



NSC 185058

Item No. 23957

CAS Registry No.: 39122-38-8

Formal Name: N-2-pyridinyl-2-pyridinecarbothioamide

MF: $C_{11}H_9N_3S$ FW: 215.3 **Purity:**

UV/Vis.: λ_{max} : 234, 294, 340 nm Supplied as: A crystalline solid

-20°C Storage: Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



NSC 185058 is supplied as a crystalline solid. A stock solution may be made by dissolving the NSC 185058 in the solvent of choice. NSC 185058 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of NSC 185058 in ethanol is approximately 2.5 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

NSC 185058 is an inhibitor of ATG4B, a cysteine protease that activates LC3B during the initiation of autophagy.¹ It inhibits ATG4B cleavage of LC3B-GST (IC₅₀ = 51 μ M) and reduces LC3B lipidation induced by starvation in Saos-2 cells. NSC 185058 (100 μM) reduces starvation-induced autophagy and prevents autophagic vacuole formation in Saos-2 and MDA-MB-468 cells. It decreases phosphorylation of ribosomal protein S6 (RPS6) only marginally and does not affect phosphatidylinositol 3-kinase (PI3K) activity, indicating a direct role on ATG4B rather than through the mammalian target of rapamycin (mTOR) and PI3K signaling pathways. NSC 185058 (100 mg/kg) decreases autophagic vacuoles in vivo in mouse liver, inhibits tumor growth in an osteosarcoma nude mouse xenograft model, and decreases the number of autophagic vacuoles in osteosarcoma tumors.

Reference

1. Akin, D., Wang, S.K., Habibzadegah-Tari, P., et al. A novel ATG4B antagonist inhibits autophagy and has a negative impact on osteosarcoma tumors. Autophagy 10(11), 2021-2035 (2014).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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