

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



NU 6027

Item No. 16177

CAS Registry No.:	220036-08-8	
Formal Name:	6-(cyclohexylmethoxy)-5-nitroso-2,4-	NH ₂
	pyrimidinediamine	
MF:	$C_{11}H_{17}N_5O_2$	N
FW:	251.3	
Purity:	≥98%	
UV/Vis.:	λ _{max} : 236, 334 nm	
Supplied as:	A crystalline solid	ŅŇ L
Storage:	-20°C	0 /
Stability:	≥2 years	
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.		

Laboratory Procedures

NU 6027 is supplied as a crystalline solid. A stock solution may be made by dissolving the NU 6027 in the solvent of choice, which should be purged with an inert gas. NU 6027 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of NU 6027 in these solvents is approximately 1, 10, and 5 mg/ml, respectively.

NU 6027 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, NU 6027 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. NU 6027 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Cyclin-dependent kinases (CDKs) play a key role in regulating cell division by phosphorylating distinct substrates in different phases of the cell cycle. Cell cycle deregulation in many cancers often results from altered CDK activity. Thus, CDKs are potential pharmacological targets for anticancer agents. NU 6027 inhibits both CDK1 and CDK2 with IC₅₀ values of 2.9 and 2.2 μ M, respectively.¹ It has been shown to inhibit cellular ataxia telangiectasia mutated and Rad3-related kinase activity (IC₅₀ = 6.7 μ M) and impair G₂/M arrest in various human cancer cells, potentiating the cytotoxic effects of DNA-damaging, anticancer agents such as cisplatin.²

References

- 1. Sayle, K.L., Bentley, J., Boyle, F.T., et al. Structure-based design of 2-arylamino-4-cyclohexylmethyl-5-nitroso-6-aminopyrimidine inhibitors of cyclin-dependent kinases 1 and 2. Bioorg. Med. Chem. Lett. 13(18), 3079-3082 (2003).
- 2. Peasland, A., Wang, L.Z., Rowling, E., et al. Identification and evaluation of a potent novel ATR inhibitor, NU6027, in breast and ovarian cancer cell lines. Br. J. Cancer 105(3), 372-381 (2011).

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

SAFFTY DATA

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.

WARRANTY AND LIMITATION OF REMEDY

uyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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