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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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) 

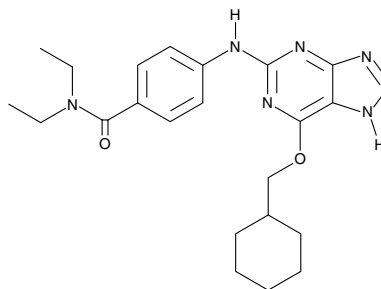
Product Information



NU 6140

Item No. 17271

CAS Registry No.: 444723-13-1
Formal Name: 4-[[6-(cyclohexylmethoxy)-9H-purin-2-yl]amino]-N,N-diethyl-benzamide
MF: C₂₃H₃₀N₆O₂
FW: 422.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 307 nm



Laboratory Procedures

For long term storage, we suggest that NU 6140 be stored as supplied at -20°C. It should be stable for at least two years. NU 6140 is supplied as a crystalline solid. A stock solution may be made by dissolving the NU 6140 in the solvent of choice. NU 6140 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of NU 6140 in these solvents is approximately 30 mg/ml.

NU 6140 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, NU 6140 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. NU 6140 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

NU 6140 is a cyclin-dependent kinase 2 (Cdk2) inhibitor (IC₅₀ = 0.41 μM) that demonstrates 10- to 36-fold selectivity against Cdk2-cyclin A compared to Cdk1-cyclin B, Cdk4-cyclin D, Cdk5-p25, or Cdk7-cyclin H.¹ NU 6140 has been found to induce cell-cycle arrest at the G₂-M phase and to potentiate the apoptotic effect of paclitaxel (Item No. 10461) in HeLa cells by inhibiting the anti-apoptotic protein, survivin.¹

Reference

1. Pennati, M., Campbell, A.J., Curto, M., *et al.* Potentiation of paclitaxel-induced apoptosis by the novel cyclin-dependent kinase inhibitor NU6140: A possible role for survivin down-regulation. *Mol. Cancer Ther.* **4**(9), 1328-1337 (2005).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17271

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

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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