

# 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

### SZABO-SCANDIC HandelsgmbH

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# **PRODUCT** INFORMATION



#### FI1

Item No. 19146

CAS Registry No.:	1418308-27-6	_	1
Formal Name:	6-cyano-N-[(1,2-dihydro-4,6-	0 	
	dimethyl-2-oxo-3-pyridinyl)	NC	$\sim$
	methyl]-1-(1-ethylpropyl)-1H-		
	indole-4-carboxamide	H H	
MF:	$C_{23}H_{26}N_4O_2$	$\langle \cdot \rangle$	0, N
FW:	390.5		l H
Purity:	≥98%		
UV/Vis.:	λ <sub>max</sub> : 250, 309 nm		
Supplied as:	A crystalline solid		
Storage:	-20°C		
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly		

#### Laboratory Procedures

EI1 is supplied as a crystalline solid. A stock solution may be made by dissolving the EI1 in the solvent of choice. El1 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of EI1 in these solvents is approximately 2 mg/ml.

EI1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, EI1 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. El1 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

#### Description

The lysine methyltransferase EZH2 (KMT6), part of polycomb repressive complex 2 (PRC2), catalyzes trimethylation of lysine 27 on histone H3 (H3K27) and is involved in proliferation and aggressive cell growth associated with neoplastic cells.<sup>1</sup> EI1 is an EZH2 inhibitor that has activity against both wild-type and Y641F mutant EZH2 (IC<sub>50</sub>s = 15 and 13 nM, respectively).<sup>2</sup> It displays 90-fold selectivity for EZH2 over EZH1 and >10,000-fold over other lysine methyltransferases. El1 blocks cellular H3K27 methylation and activates PRC2-specific gene expression.<sup>2</sup> Inhibition of EZH2 by EI1 in diffused large B cell lymphoma cells carrying Y641 mutations results in decreased proliferation, cell cycle arrest, and apoptosis.<sup>2</sup>

#### References

- 1. Simon, J.A. and Lange, C.A. Roles of the EZH2 histone methyltransferase in cancer epigenetics. Mutat. Res. 647, 21-29 (2008).
- 2. Qi, W., Chan, H., Teng, L., et al. Selective inhibition of Ezh2 by a small molecule inhibitor blocks tumor cells proliferation. Proc. Natl. Acad. Sci. USA 109(52), 21360-21365 (2012).

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

#### SAFFTY DATA

al 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

Buyer 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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