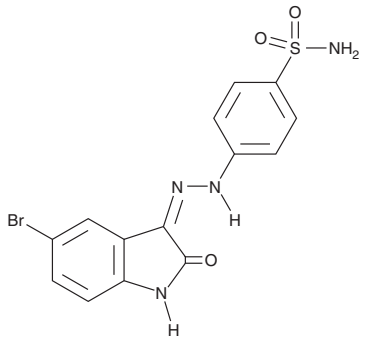
PRODUCT INFORMATION

Cdk2 Inhibitor II

Item No. 15154

CAS Registry No.:	222035-13-4
Formal Name:	4-[2-(5-bromo-1,2-dihydro-2-oxo-3H-indol-3-ylidene)hydrazinyl]-benzenesulfonamide
Synonyms:	Cyclin-dependent kinase 2 Inhibitor II, SC-221409
MF:	$C_{14}H_{11}BrN_4O_3S$
FW:	395.2
Purity:	≥95%
UV/Vis.:	λ_{max}: 213, 257, 395 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

Cdk2 inhibitor II is supplied as a crystalline solid. A stock solution may be made by dissolving the Cdk2 inhibitor II in the solvent of choice, which should be purged with an inert gas. Cdk2 inhibitor II is soluble in the organic solvent DMSO at a concentration of approximately 5 mg/ml.

Description

The cyclin-dependent kinase 2 (Cdk2) works with cyclins A or E to regulate S phase and G_2-M transition during the cell cycle.[1] Cdk2 inhibitor II is a 3-(benzylidne)indolin-2-one analog that selectively and potently inhibits Cdk2 (IC_{50} = 60 nM).[2] It is cell permeable, reversible, and ATP-competitive.[2]

References

1. Funk, J.O. Cell cycle checkpoint genes and cancer. *Encyclopedia of life sciences*. *John Wiley & Sons* (2005).
2. Davis, S.T., Benson, B.G., Bramson, H.N., *et al.* Prevention of chemotherapy-induced alopecia in rats by CDK inhibitors. *Science* **291(5501)**, 134-137 (2001).

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