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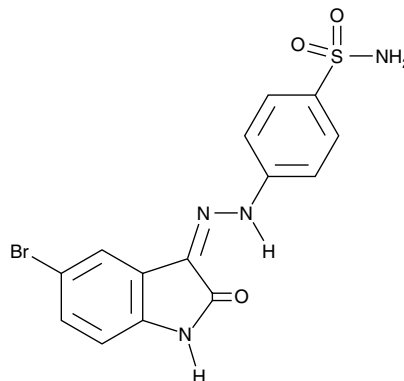
Product Information



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: C₁₄H₁₁BrN₄O₃S
FW: 395.2
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 213, 257, 395 nm



Laboratory Procedures

For long term storage, we suggest that Cdk2 inhibitor II be stored as supplied at -20°C. It should be stable for at least two years.

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. Cdk2 Inhibitor II is soluble in DMSO at a concentration of approximately 5 mg/ml.

Cdk2 Inhibitor II is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

The Cdk2 works with cyclins A or E to regulate S phase and G₂-M transition during the cell cycle.¹ Cdk2 Inhibitor II is a 3-(benzylidene)indolin-2-one analog that selectively and potently inhibits Cdk2 (IC₅₀ = 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* 1-6 (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).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15154

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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