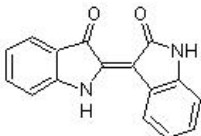


Product datasheet

Indirubin, cyclin-dependent kinase and GSK-3 beta inhibitor ab120960

[1 Image](#)

Overview

Product name	Indirubin, cyclin-dependent kinase and GSK-3 beta inhibitor
Description	Potent cyclin-dependent kinase and GSK-3β inhibitor
Biological description	Potent cyclin-dependent kinase (CDK) and GSK-3β inhibitor (IC ₅₀ values are 5.5 μM at CDK5, 9 μM at CDK1 and 600 nM at GSK-3β). Antimitotic and antitumoral properties induces cell cycle arrest, inhibits cell proliferation AMPK, LCK and SGK. Inhibits CDK5- and GSK-3β-mediated tau phosphorylation, an over-active process in Alzheimer disease states.
Purity	> 98%
CAS Number	479-41-4
Chemical structure	

Properties

Chemical name	3-(1,3-Dihydro-3-oxo-2H-indol-2-ylidene)-1,3-dihydro-2H-indol-2-one
Molecular weight	262.27
Molecular formula	C ₁₆ H ₁₀ N ₂ O ₂
PubChem identifier	5359405
Storage instructions	Store at -20°C. It is important to note that this product is reported to be light sensitive. Store In the Dark. Store under desiccating conditions.
Solubility overview	Soluble in DMSO to 100 mM and in ethanol to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Refer to SDS for further information

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

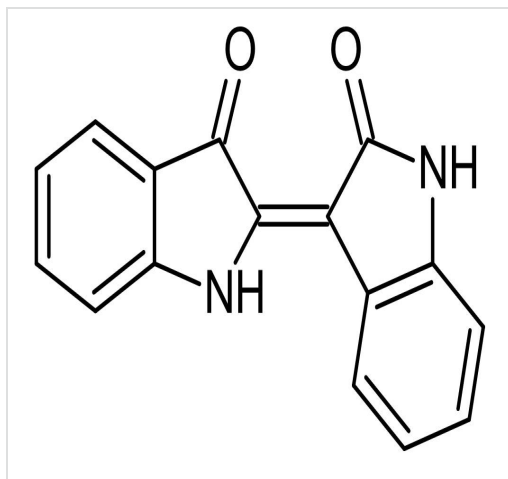
SMILES

O=C3c4ccccc4NC3=C1/c2ccccc2NC1=O

Source

Synthetic

Images



2D chemical structure image of ab120960, Indirubin, cyclin-dependent kinase and GSK-3 beta inhibitor

Chemical Structure - Indirubin, cyclin-dependent kinase and GSK-3 beta inhibitor (ab120960)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team