

Product datasheet

CHIR99021, GSK3 inhibitor ab120890

[11 References](#) [1 Image](#)

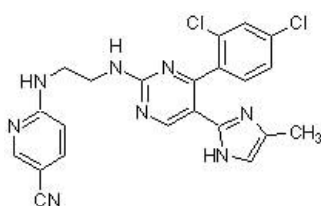
Overview

Product name	CHIR99021, GSK3 inhibitor
Description	Potent, highly selective GSK3 inhibitor
Biological description	Potent, highly selective aminopyrimidine GSK3 inhibitor (IC ₅₀ values are 6.7 and 10 nM at GSK3β and GSK3α, respectively). Exhibits >500-fold selectivity for GSK3 against 20 closely related protein kinases and >800-fold selectivity for 23 additional enzymes and 22 receptors. Promotes self-renewal of mouse and human ESC due to β-catenin and c-Myc protein level stabilization. Commonly used in multiple stages of organoid generation.

Purity > 98%

CAS Number 252917-06-9

Chemical structure



Properties

Chemical name	6-[[2-[[4-(2,4-Dichlorophenyl)-5-(5-methyl-1 <i>H</i> -imidazol-2-yl)-2-pyrimidinyl]amino]ethyl]amino]-3-pyridinecarbonitrile
Molecular weight	465.34
Molecular formula	C ₂₂ H ₁₈ Cl ₂ N ₈
PubChem identifier	9956119
Storage instructions	Shipped at 4°C. Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO 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.

Toxic, 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.

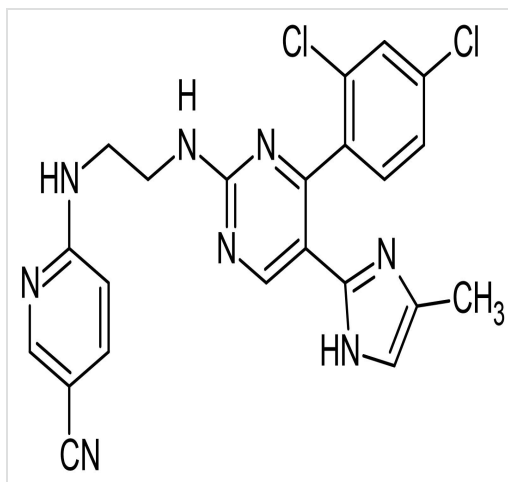
SMILES

N#CC(C=N1)=CC=C1NCCNC2=NC=C(C3=NC(C)=CN3)C(C4=CC=C(Cl)C=C4Cl)=N2

Source

Synthetic

Images



2D chemical structure image of ab120890, CHIR99021, GSK3 inhibitor

Chemical Structure - CHIR99021, GSK3 inhibitor
(ab120890)

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