

CHIR-99021 Biochemical

CHIR-99021

CATALOG #
AAA201920

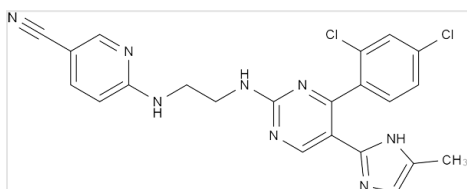
PRODUCT SYNONYMS

CHIR-99021; CT99021; CHIR99021; CHIR 99021; CT-99021; CHIR-99021 biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	>98% (HPLC)
Suitability	DMSO: >=5.1mg/mL
Target	GSK-3
Receptor	GSK-3alpha; GSK-3beta
Chemical Name	3-Pyridinecarbonitrile, 6-[[[2-[4-(2, 4-dichlorophenyl)-5-(5-methyl-1H-imidazol-2-yl)-2-pyrimidinyl]amino]ethyl]amino]
SMILES	<chem>CC1=CN=C(N1)C1=CN=C(NCCNC2=NC=C(C=C2)C#N)N=C1C1=C(Cl)C=C(Cl)C=C1</chem>
Molecular Formula	C22H18Cl2N8
CAS Number	252917-06-9
Preparation and Storage	Store at -20 degree C Stability: >=2 years Shipping: Ice Pack

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for CHIR-99021 biochemical	A potent, specific GSK-3 inhibitor with IC50 of 5nM and 10nM for GSK3beta and GSK3alpha, respectively; mimics Wnt signaling in preadipocytes, stabilizes free cytosolic beta-catenin and inhibits adipogenesis by blocking induction of C/EBPalpha and PPARgamma; potentiates insulin activation of glucose transport and utilization in vitro and in vivo; also widely used for stem cell differentiation and naive stem cell generation.
Product Categories/Family for CHIR-99021 biochemical	PI3K/Akt/mTOR signaling; Cancer
References	1. Ying QL, et al. Nature. 2008 May 22; 453 (7194):519-23. 2. Ring DB, et al. Diabetes. 2003 Mar; 52 (3):588-95. 3. Bennett CN, et al. J Biol Chem. 2002 Aug 23; 277 (34):30998-1004. 4. Li W, et al. Stem Cells. 2009 Dec; 27 (12):2992-3000.

NCBI AND UNIPROT INFORMATION

Molecular Weight	465.3379
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/chir-99021/201920>