

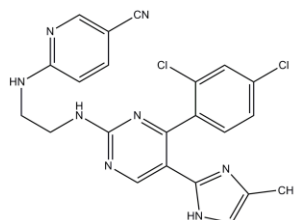
CHIR99021

ALTERNATE NAME 6-((2-((4-(2,4-Dichlorophenyl)-5-(4-methyl-1H-imidazol-2-yl)pyrimidin-2-yl)amino)ethyl)amino)nicotinonitrile; CT99021

CATALOG #: 1677-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₂H₁₈Cl₂N₈

MOLECULAR WEIGHT: 465.34

CAS NUMBER: 252917-06-9

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (100 mM)

PURITY: ≥ 95 % by HPLC

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: A potent and highly selective inhibitor of glycogen synthase kinase-3β (GSK-3β) (IC₅₀ = 6.7 nM). CHIR99021 has been shown to allow for long-term expansion of murine embryonic stem cells in a chemically-defined medium in conjunction with MEK/MAPK inhibitor PD184352 and fibroblast growth factor receptor (FGFR) inhibitor SU5402.

REFERENCES:

1. Ying, Q.-L. *et al.* (2008). *Nature* **453**, 519.
2. Sato, N., *et al.* (2004). *Nat. Med.* **10**, 55.
3. Ring, D.B., *et al.* (2003). *Diabetes* **52**, 588.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

- BIO (Cat. No. 1673-1)
- CHIR CHIR99021 (Cat. No. 1677-5, 25)
- GSK-3 Inhibitor, TWS119 (Cat. No. 1655-2)
- PD-0325901 (Cat. No. 1643-2)
- Pyrintegrin (Cat. No. 1629-1,5)
- EZSolution™ Pyrintegrin (Cat. No. 1737-1)
- SB-431542 (Cat. No. 1674-1)
- Thiazovivin (Cat. No. 1681-1,5)
- Y-27632, 2HCl (Cat. No. 1596-1,5,50)