

CAT NO. 27-H76

LOT NO. 1001

CHIR99021

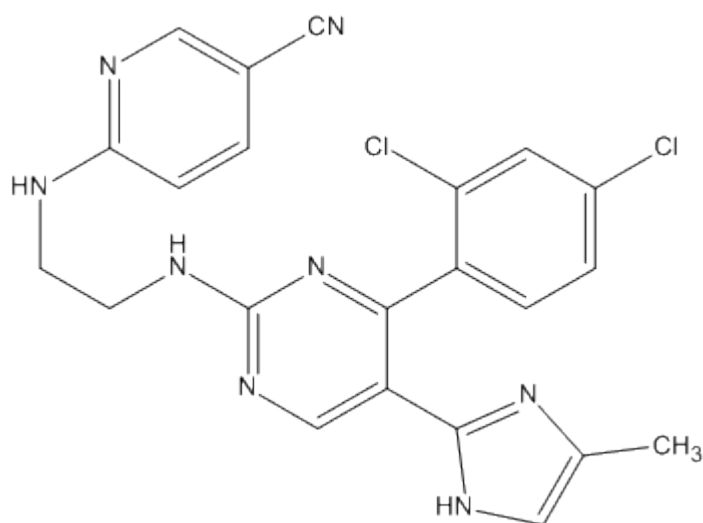
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Certificate of Analysis

For research purposes only

TECHNICAL INFORMATION



Other Names: CT99021, 6-((2-((4-(2,4-Dichlorophenyl)-5-(4-methyl-1H-imidazol-2-yl)pyrimidin-2-yl)amino)ethyl)amino)nicotinonitrile

Chemical Formula: C₂₂H₁₈Cl₂N₈

CAS Number: 252917-06-09

Molecular Weight: 465.34

Purity: 98% by HPLC

IC₅₀ = 6.7nM

Appearance: Off White Solid

Solubility: DMSO (100mM)

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO (100mM). For a 10 mM solution, reconstitute by adding 430µl of DMSO to the entire contents of the vial. For most cells, the maximum tolerance to DMSO is <0.5%. Incubate in a 37°C water bath for 5 minutes if a precipitate is observed.

When used in combination with PD0325901, CHIR99021 has been shown to sustain ES cell self-renewal.

REFERENCES

1. Tighe A. et al. (2007). GSK-3 inhibitors induce chromosome instability. *BMC Cell Biol.* 8:34.
2. Ying Q et al., *Nature*, 53: 519-523. (2008).
2. Ying Q. et al. (2008) The ground state of embryonic stem cell self renewal. *Nature*. 453: 519-523.
3. Finley D. et al. (2004). Glycogen Synthase Kinase-3 regulates IGFBP-1 gene transcription through the Thymine-rich Insulin Response Element. *BMC Mol. Biol.* 5:15.