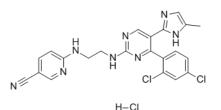


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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CHIR-99021 monohydrochloride
Cat. No.	:	PC-42429
CAS No.	:	1797989-42-4
Molecular Formula	:	C ₂₂ H ₁₉ Cl ₃ N ₈
Molecular Weight	:	501.7989
Target	:	GSK-3
Solubility	:	10 mM in DMSO



Biological Activity

CHIR-99021 (Laduviglusib) monohydrochloride is a potent, specific **GSK-3** inhibitor with IC50 of 5 nM and 10 nM for GSK3 β and GSK3 α , respectively.

CHIR-99021 mimics Wnt signaling in preadipocytes, stabilizes free cytosolic beta-catenin and inhibits adipogenesis by blocking induction of C/EBPa and PPARy.

CHIR-99021 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.

References

Ying QL, et al. *Nature*. 2008 May 22;453(7194):519-23.
Ring DB, et al. *Diabetes*. 2003 Mar;52(3):588-95.
Bennett CN, et al. *J Biol Chem*. 2002 Aug 23;277(34):30998-1004.
Li W, et al. *Stem Cells*. 2009 Dec;27(12):2992-3000.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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