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CHIR99021 (Qk1101)



Type: Small molecules

Available for purchase: unit size (mg): 2, 5, 10

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Product Information

CHIR99021 is a potent inhibitor of the serine/threonine kinase glycogen synthase kinase (GSK)-3. GSK-3 is a key inhibitor of the Wnt pathway, an import regulatory mechanism in stem cell biology, inhibition of GSK-3 with CHIR99021 activates Wnt promoting stem cell maintenance and differentiation. In cell culture, CHIR99021 is used to stimulate neural and cardiac differentiation in pluripotent stem cells, it can also promote self-renewal in embryonic stem cells (ESCs).

Qkine CHIR99021 (Qk1101) is highly pure and validated in iPSC differentiation into definitive endoderm.

Alternative protein names

Laduviglusib, CT99021, CT 99021, CHIR-99021

Product Size Wording

Sourced from a trusted supplier and order fulfilled by Qkine, 10 mg will be dispatched as 2 x 5 mg

Molecular weight

Molecular Weight: 465.34

Protein Uniprot number

Cas No. 252917-06-9

Product Information

- Chemical name: 6-[[2-[[4-(2,4-Dichlorophenyl)-5-(5-methyl-1*H*-imidazol-2-yl)-2-pyrimidinyl]amino]ethyl]amino]-3-pyridinecarbonitrile
- Formula: $C_{22}H_{18}Cl_2N_8$
- Storage: powder -20°C for 1 year, in solvent -80°C for 1 year
- Solubility in DMSO: 105 mg/ml (225.6 mM)

Featured applications

- Differentiation of iPSC into endoderm
- iPSC-derived mesoderm differentiation
- Differentiation of midbrain dopaminergic neurons
- Self-renewal in mouse and human embryonic stem cells

Further quality assays

- >99% purity
- HPLC/HNMR: Consistent with structure

Scientific Information

Bioactivity

Preparation of CHIR99021 stock solution in DMSO

	2 mg	5 mg	10 mg
1 mM	4.30 ml	10.74 ml	21.49 ml
2 mM	2.15 ml	5.37 ml	10.74 ml
5 mM	0.86 ml	2.15 ml	4.30 ml
10 mM	0.04 ml	1.07 ml	2.15 ml

Original product page: https://qkine.com/product/chir99021-qk1101/

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