LKT Laboratories, Inc.

# CHIR-99021

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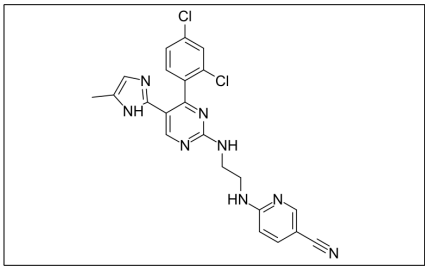
## Product Information

**Product ID** C291342
**CAS No.** 252917-06-9
**Chemical Name** CHIR 99021

**Synonym** CHIR99021; CT 99021; CT-99021; CT99021

**Formula** $C_{22}H_{18}Cl_2N_8$
**Formula Wt.** 465.34
**Melting Point**
**Purity** ≥98%
**Solubility**




## Pricing and Availability

***Bulk quanitites available upon request***

| Product ID | Size | List Price |
|---|---|---|
| C291342 | 5 mg | $75.00 |
| C291342 | 25 mg | $285.00 |
| C291342 | 100 mg | $825.00 |

**Store Temp** -20˚C
**Ship Temp** Ambient
**Description** CHIR-99021 is a highly potent and specific inhibitor of GSK3 that induces differentiation and facilitates development of hematopoietic stem cells. Addition of agents such as rapamycin or retinoic acid to the treatment of human embryonic stem cells was found to strengthen the function of CHIR-99021. TEST!!!!!!

**References**

Galat Y, Elcheva I, Dambaeva S, et al. Application of small molecule CHIR99021 leads to the loss of hemangioblast progenitor and increased hematopoiesis of human pluripotent stem cells. Exp Hematol. 2018 Sep;65:38-48. PMID: 29879440.

Laco F, Woo TL, Zhong Q, et al. Unraveling the inconsistencies of cardiac differentiation efficiency induced by the GSK3ß inhibitor CHIR99021 in human pluripotent stem cells. Stem Cell Reports. 2018 Jun 5;10(6):1851-1866. PMID: 29706502.

Qiu XX, Liu Y, Zhang YF, et al. Rapamycin and CHIR99021 coordinate robust cardiomyocyte differentiation form human pluripotent stem cells via reducing p53-dependent apoptosis. J Am Heart Assoc. 2017 Oct 2;6(10). pii:e005295. PMID: 28971953.

Cheng T, Zhai K, Chang Y, et al. CHIR99021 combined with retinoic acid promotes the differentiation of primordial germ cells from human embryonic stem cells. Oncotarget. 2017 Jan 31;8(5):7814-7826. PMID: 27999196.