



Product Information

Product ID C291342

CAS No. 252917-06-9

Chemical Name CHIR 99021

Synonym CHIR99021; CT 99021; CT-99021; CT99021

Formula C₂₂H₁₈Cl₂N₈

Formula Wt. 465.34

Melting Point

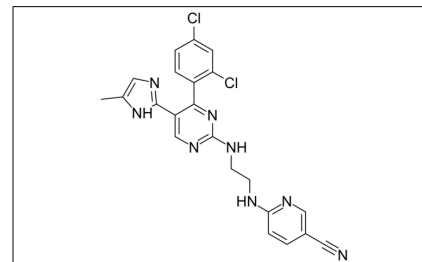
Purity ≥98%

Solubility

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.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C291342	5 mg	\$102.30
C291342	25 mg	\$388.40
C291342	100 mg	\$1124.30

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 GSK3B 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 from 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.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.