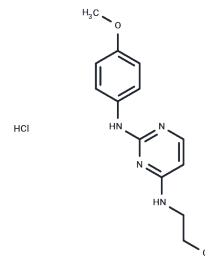


Cardiogenol C hydrochloride

Chemical Properties

CAS No. :	1049741-55-0
Formula:	C ₁₃ H ₁₇ ClN ₄ O ₂
Molecular Weight:	296.75
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cardiogenol C hydrochloride (Cardiogenol C) can induces the differentiation of ESCs into cardiomyocytes (EC50= 100 nM).
Targets(IC50)	Wnt/beta-catenin
In vitro	Cardiogenol C could induce HBPCs to express transcription factors GATA4, Nkx2.5 and Tbx5, which are early specific markers for pre-cardiomyogenic cells[1].
Cell Research	Used GMEM plus 5 μM Cardiogenol C and 7.5% ESQ-FBS. The cultures were harvested at different day-intervals after induction for immunohistochemistry, semi-quantitative RT-PCR analysis, western blot analysis and comparative proteomic[1].

Solubility Information

Solubility	DMSO: 70 mg/mL (235.89 mM),Sonication is recommended. H ₂ O: 2 mg/mL (6.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.74 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3698 mL	16.8492 mL	33.6984 mL
5 mM	0.674 mL	3.3698 mL	6.7397 mL
10 mM	0.337 mL	1.6849 mL	3.3698 mL
50 mM	0.0674 mL	0.337 mL	0.674 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yau, Winifred WY, Tang, Mei-Kuen, Chen, Elve, et al. Cardiogenol C can induce Mouse Hair Bulge Progenitor Cells to Transdifferentiate into Cardiomyocyte-like Cells[J]. Proteome Science, 9(1):3.

Koley M , Mike A K , Heher P , et al. VUT-MK142 : a new cardiomyogenic small molecule promoting the differentiation of pre-cardiac mesoderm into cardiomyocytes[J]. MedChemComm, 2013, 4(8):1189.

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