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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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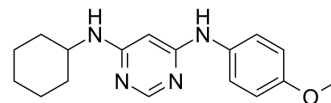
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VUT-MK142

Cat. No.:	HY-122610
CAS No.:	1313491-22-3
Molecular Formula:	C ₁₇ H ₂₂ N ₄ O
Molecular Weight:	298.38
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (83.79 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.3514 mL	16.7572 mL	33.5143 mL
		5 mM		0.6703 mL	3.3514 mL	6.7029 mL
		10 mM		0.3351 mL	1.6757 mL	3.3514 mL
		Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (8.38 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.38 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	VUT-MK142 is a potent new cardiomyogenic synthetic agent promoting the differentiation of pre-cardiac mesoderm into cardiomyocytes, which may be useful to differentiate stem cells into cardiomyocytes for cardiac repair ^[1] .
In Vitro	VUT-MK142 possesses promising cardiomyogenic effects on various cell types. VUT-MK142 shows a remarkable effect on both P19 and C2C12 cells. Compared to CgC, VUT-MK142-treatment leads to a markedly stronger up-regulation of the expression of ANF^[1]. VUT-MK142 (1 μM, 7 day treatment) significantly (p < 0.05) increases the luciferase signal by 3.1 ± 0.3 luciferase (n = 5)-fold in P19 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Moumita Koley, et al. VUT-MK142 : a new cardiomyogenic small molecule promoting the differentiation of pre-cardiac mesoderm into cardiomyocytes. Medchemcomm. 2013 Aug 1;4(8):1189-1195.

Caution: Product has not been fully validated for medical applications. For research use only.

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