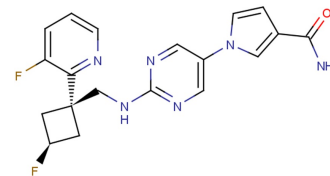


Reldesemtiv

Chemical Properties

CAS No.:	1345410-31-2
Formula:	C ₁₉ H ₁₈ F ₂ N ₆ O
Molecular Weight:	384.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Reldesemtiv is a selective and next-generation fast skeletal muscle troponin activator. Reldesemtiv selectively activates fast skeletal myofibrils (EC ₅₀ : 3.4 μ M). Reldesemtiv enhances exercise performance in a heart failure model.
Targets(IC ₅₀)	Others: None
In vitro	Reldesemtiv selectively binds to the fast skeletal troponin complex and sensitizes to calcium [1].
In vivo	Reldesemtiv increases sarcomeric Ca ²⁺ sensitivity in skinned LAD-HF skeletal fibers. Reldesemtiv (10 mg/kg; p.o.) obviously improves rotarod performance in exercise-intolerant LAD-HF rats. Reldesemtiv (10 mg/kg; i.v.) enhances Ca ²⁺ sensitivity in fast skeletal muscle fibers and increase muscle force in response to submaximal stimulation frequencies in LAD-HF rats [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.602 mL	13.008 mL	26.016 mL
5 mM	0.52 mL	2.602 mL	5.203 mL
10 mM	0.26 mL	1.301 mL	2.602 mL
50 mM	0.052 mL	0.26 mL	0.52 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Hwee DT, et al. The small-molecule fast skeletal troponin activator, CK-2127107, improves exercise tolerance in a rat model of heart failure. *J Pharmacol Exp Ther*. 2015 Apr;353(1):159-68.
2. Andrews JA, et al. CK-2127107 amplifies skeletal muscle response to nerve activation in humans. *Muscle Nerve*. 2018 May;57(5):729-734.

Inhibitors · Natural Compounds · Compound Libraries

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