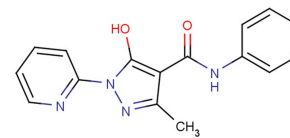


DMT1 blocker 1

Chemical Properties

CAS No.:	1354790-56-9
Formula:	C ₁₆ H ₁₄ N ₄ O ₂
Molecular Weight:	294.31
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	DMT1 blocker 1 is a blocker of divalent metal transporter 1 (DMT1) with IC ₅₀ of 0.64 μ M, which is expected to block the absorption of iron by intestinal cells in vivo.
Targets(IC ₅₀)	DMT1 blocker 1: 0.64 μ M

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	3.398 mL	16.989 mL	33.978 mL
5 mM	0.68 mL	3.398 mL	6.796 mL
10 mM	0.34 mL	1.699 mL	3.398 mL
50 mM	0.068 mL	0.34 mL	0.68 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. Cadieux JA, et al. Synthesis and biological evaluation of substituted pyrazoles as blockers of divalent metal transporter 1 (DMT1). Bioorg Med Chem Lett. 2012 Jan 1;22(1):90-5.

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