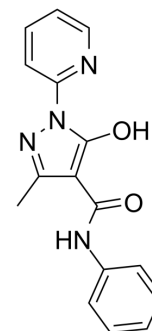


DMT1 blocker 1

Cat. No.:	HY-126301		
CAS No.:	1354790-56-9		
Molecular Formula:	C ₁₆ H ₁₄ N ₄ O ₂		
Molecular Weight:	294.31		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (169.89 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.3978 mL	16.9889 mL	33.9778 mL
		5 mM	0.6796 mL	3.3978 mL	6.7956 mL
10 mM		0.3398 mL	1.6989 mL	3.3978 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.83 mg/mL (2.82 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.83 mg/mL (2.82 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.83 mg/mL (2.82 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	DMT1 blocker 1 is a blocker of divalent metal transporter 1 (DMT1) with an IC ₅₀ of 0.64 μM, is expected to block iron uptake by enterocytes in vivo ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.64 μM (DMT1 blocker 1) ^[1]

CUSTOMER VALIDATION

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- J Neuroinflammation. 2020 Apr 11;17(1):110.

See more customer validations on www.MedChemExpress.com

REFERENCES

[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.

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

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