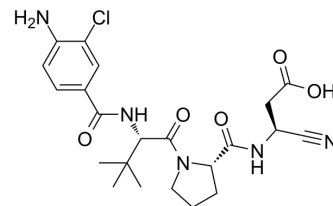


ML132

Cat. No.:	HY-12412
CAS No.:	1230628-71-3
Molecular Formula:	C ₂₂ H ₂₈ ClN ₅ O ₅
Molecular Weight:	477.94
Target:	Caspase
Pathway:	Apoptosis111
Storage:	-80°C, protect from light, stored under nitrogen



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (523.08 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.0923 mL	10.4616 mL	20.9231 mL
		5 mM	0.4185 mL	2.0923 mL	4.1846 mL
10 mM		0.2092 mL	1.0462 mL	2.0923 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 7 mg/mL (14.65 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 6.25 mg/mL (13.08 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (13.08 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	ML132 (NCGC-00183434) is a selective caspase 1 inhibitor with an IC ₅₀ of 34.9 nM. ML132 shows good stability that can be utilized as molecular probes of caspase 1. ML132 can be used for research in the field of anti-cancer and anti-inflammatory ^[1] .			
IC ₅₀ & Target	Caspase-1 34.9 nM (IC ₅₀)	Caspase-4 1.27 μM (IC ₅₀)	Caspase-5 0.85 μM (IC ₅₀)	Caspase-8 4.18 μM (IC ₅₀)
	Caspase-9 2.85 μM (IC ₅₀)			

REFERENCES

[1]. Adriaenssens Y, et al. Carboxylate isosteres for caspase inhibitors: the acylsulfonamide case revisited. *Org Biomol Chem*. 2017 Sep 13;15(35):7456-7473.

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

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