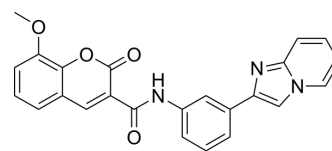


Procaspase-3/6 activator 1

Cat. No.:	HY-10131
CAS No.:	1100353-03-4
Molecular Formula:	C ₂₄ H ₁₇ N ₃ O ₄
Molecular Weight:	411.41
Target:	Caspase
Pathway:	Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 1 mg/mL (2.43 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.4307 mL	12.1533 mL	24.3067 mL
5 mM	---	---	---
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Procaspase-3/6 activator 1 (compound 1541) is a highly specific and robust activator of executioner procaspases-3 and -6, with EC₅₀ values of 2.4 ± 0.2 and 2.8 ± 0.3 μM, respectively. Procaspase-3/6 activator 1 does not activate procaspases-1 or -7 [1].

IC₅₀ & Target

Procaspase-3 2.4 ± 0.2 μM (EC ₅₀)	Procaspase-6 2.8 ± 0.3 μM (EC ₅₀)
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In Vitro

Procaspase-3 at 100 nM was incubated with Procaspase-3/6 activator 1 (compound 1541) (100 nM to 100 μM). After a 4-hour incubation at 37°C, the samples were assayed for caspase activity by addition of Ac-DEVD-AFC. Low concentrations of 1541 induce activity of procaspase-3 with an EC₅₀ of 2.4 μM, and, at high concentrations, inhibit with an IC₅₀ of 34.0 μM^[1]. Procaspase-3/6 activator 1 (compound 1541) exerts a similar inhibitory effect on active caspase-3 (IC₅₀ = 35 μM), as seen for procaspase-3^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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