



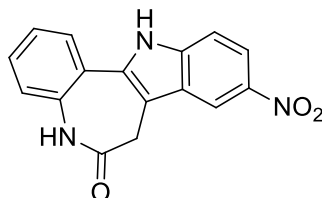
Catalog # 10-1397

Alsterpaullone

CAS# 237430-03-4

9-Nitro-7,12-dihydroindolo-[3,2-d][1]benzazepin-6(5)-one

Lot # X102119



A potent and selective inhibitor of GSK-3 β and CDK5/p25. Potent inhibitor of CDK1/cyclin B (IC₅₀ = 35 nM)¹. Induces apoptosis². Inhibits angiogenesis³.

- 1) Bain *et al.* (2003), *The specificities of protein kinase inhibitors: an update*; Biochem. J., **371** 199
- 2) Lahusen *et al.* (2003), *Alsterpaullone, a novel cyclin-dependent kinase inhibitor, induces apoptosis by activation of caspase-9 due to perturbation in mitochondrial membrane potential.*; Mol. Carcinog., **36** 183
- 3) Zahler *et al.* (2010), *Anti-angiogenic potential of small molecular inhibitors of cyclin dependent kinases in vitro*; Angiogenesis, **13** 239

PHYSICAL DATA

Molecular Weight:	293.28
Molecular Formula:	C ₁₆ H ₁₁ N ₃ O ₃
Purity:	96% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml)
Physical Description:	Brown solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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