Product Data Sheet

Calyculin A

Cat. No.: HY-18983 CAS No.: 101932-71-2 Molecular Formula: $C_{50}H_{81}N_{4}O_{15}P$ Molecular Weight: 1009.17 Target: Phosphatase

Pathway: Metabolic Enzyme/Protease Storage: Solution, -20°C, 2 years

BIOLOGICAL ACTIVITY

BIOLOGICAL AC	IIVIIY	
Description	Calyculin A ((-)-Calyculin A) is a potent and cell-permeable protein phosphatase 1 (PP1) and protein phosphatase 2A (PP2A) inhibitor with IC_{50} s of 2 nM and 0.5-1 nM, respectively ^[1] .	
IC ₅₀ & Target	IC50: 2 nM (PP1); 0.5-1 nM (PP2A) ^[1]	
In Vitro	Calyculin A (1-10 nM; 24 hours) induces cytotoxicity in MG63 cells in a dose-dependent manner ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay ^[2]	
	Cell Line:	Human osteosarcoma MG63 cells
	Concentration:	0, 1, 2, 5, 10 nM
	Incubation Time:	24 hours
	Result:	Treatment with 0.1 nM for 24 h had a minimal effect on MG63 cell survival. Cell rounding and shrinking were obvious in the cultures treated for 24 h with 5 nM. The level of the cell viability treated with 10 nM was 27% that of the control cultures.

CUSTOMER VALIDATION

- Cell Discov. 2020 Apr 28;6:26.
- Autophagy. 2022 Oct 27.
- Cell Death Differ. 2021 Nov 19.
- Redox Biol. 2023 Aug, 64, 102780.
- Cell Rep. 2021 Jul 20;36(3):109404.

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 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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