Calyculin A 5005 2006 10 μg	3 Track I a	Orders: Support: Web:	info@cellsignal.com cellsignal.com	
3 Trask Lane Danvers Massachusetts 01923 USA For Research Use Only. Not for Use in Diagnostic Procedures.				
Background	Calyculin A inhibits the activity of protein phosphatases PP1 and PP2A (1,2). Unlike Okadaic acid, which reduces PP2A activity but has little effect on PP1 activity, Calyculin A inhibits both phosphatases (1). Neither Calyculin A nor Okadaic acid inhibit acid or alkaline phosphatases or phospho- tyrosine protein phosphatases (2).			
Description	Calyculin A is a more potent phosphatase inhibitor than Okadaic acid (2). As shown by Western blot, treatment of cells with 100 nM Calyculin A for 30 minutes induces threonine phosphorylation, detected by Phospho-Threonine-Polyclonal Antibody #9381. IC ₅₀ values for inhibitory activity against PP1 are approximately 2 nM. IC ₅₀ values for inhibitory activity against PP2A are approximately 0.5 -1.0 nM.			
Molecular Formula	$C_{50}H_{81}N_4O_{15}P$			
Molecular Weight	1009.17 g/mol			
Purity	>98%			
CAS	101932-71-2			
Solubility	Soluble in DMSO at 50mM and EtOH at 1mg/ml.			
Storage	Store lyophilized at -20°C, desiccated. In lyophilized form, the che solution, continue to store at -20°C and use within 1 month to prev multiple freeze/thaw cycles.	vent loss of p	ootency. Aliquot to avoid	
Directions for Use:	Calyculin A is supplied as a lyophilized clear film. For 10 µM stock aliquots at -20°C in the dark. Treat cells with 50-100 nM calyculin tightly sealed (unopened) at -20°C in the dark. See MSDS.			

This compound is sold only for use in extremely dilute solutions for biological research. No other use is intended and any other use involves substantial hazards. This compound should never be handled in powder or aerosol form or in any other form susceptible to uncontrolled release in the laboratory, even in very small quantities.

Background	1. Resjö, S. et al. (1999) <i>Biochem J</i> 341 (Pt 3), 839-45.
References	2. Ishihara, H. et al. (1989) Biochem Biophys Res Commun 159, 871-7.

Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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