

Revision 1

Store at -20C

Calyculin A

10 µg

#9902

**Cell Signaling**
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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).

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 at -20°C.

Directions for Use:

Calyculin A is supplied as a lyophilized clear film. For 10 µM stock, reconstitute in 1 ml DMSO. Store in aliquots at -20°C in the dark. Treat cells with 50-100 nM calyculin A for 5-30 minutes. Store in aliquots 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 References

1. Resjö, S. et al. (1999) *Biochem J* 341 (Pt3), 839-45.
2. Ishihara, H. et al. (1989) *Biochem Biophys Res Commun* 159, 871-7.

APPLICATIONS KEY

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
Rab: rabbit All: all species expected

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Calyculin A

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