

Product Name : KG-501
Cat. No. : PC-70246
CAS No. : 18228-17-6
Molecular Formula : C₁₇H₁₃ClNO₅P
Molecular Weight : 377.72
Target : CREB/CBP
Solubility : 10 mM in DMSO



Biological Activity

KG-501 (Naphthol AS-E phosphate) is a small-molecule antagonist of **CREB-CBP** interaction, inhibits the cAMP-dependent activation of cellular genes via CREB.

KG-501 (Naphthol AS-E phosphate) disrupts phospho (Ser-133) CREB binding to CBP KIX domain with K_i of 90 μ M, similar K_i for binding of phospho (Ser-133) CREB protein to p300.

KG-501 (Naphthol AS-E phosphate) also interferes with the Myb-KIX interaction in vitro and inhibits Myb activity in vivo.

References

Best JL, et al. *Proc Natl Acad Sci U S A*. 2004 Dec 21;101(51):17622-7.

Uttarkar S, et al. *Mol Cancer Ther*. 2015 Jun;14(6):1276-85.

van der Sligte NE, et al. *Oncotarget*. 2015 Jun 20;6(17):14970-81.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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