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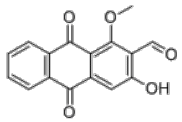
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Damnacanthal
Cat. No.	:	PC-70102
CAS No.	:	477-84-9
Molecular Formula	:	$C_{16}H_{10}O_5$
Molecular Weight	:	282.25
Target	:	Src
Solubility	:	10 mM in DMSO



Biological Activity

Damnacanthal is a highly potent, selective inhibitor of **p56 lck tyrosine kinase** with IC50 of 17 nM for inhibition of p56lck autophosphorylation.
Damnacanthal also shows an IC50 of 620 nM for phosphorylation of an exogenous peptide by p56lck.
Damnacanthal displays >100-fold selectivity over PKA and PKC, modest (7-20-fold) over p60src and p59fyn.
Damnacanthal inhibits PMACI-induced IL-1β, IL-6 and TNF-α expressions by suppressing NF-κB activation and suppresses the activation of caspase-1 and the expression of RIP-2 in mast cells.
Damnacanthal also is an effective inhibitor of **LIMK1/2** (IC50=0.8/1.53 uM, respectively).

References

Faltynek CR, et al. ***Biochemistry.*** 1995 Sep 26;34(38):12404-10.

Kim MH, et al. ***Immunopharmacol Immunotoxicol.*** 2014 Oct;36(5):355-63.

Ohashi K, et al. ***Mol Biol Cell.*** 2014 Mar;25(6):828-40.

E-mail: tech@probechem.com