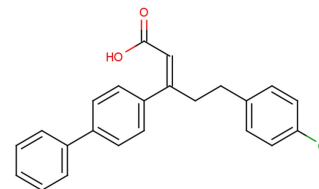


PS315

Chemical Properties

CAS No.:	1221964-50-6
Formula:	C23H19ClO2
Molecular Weight:	362.85
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	PS315 inhibits the full-length and catalytic domain constructs of PKC ζ (IC ₅₀ =10 μ M) and PKC η (IC ₅₀ =30 μ M). PS315 has anti-cancer activity. PS315 is a derivative of PS48 and is an allosteric PKC inhibitor by binding to the PIF-pocket of aPKC and inducing displacement of the active site residue Lys111.
Targets(IC ₅₀)	PKC ζ : 10 μ M PKC η : 30 μ M
In vitro	PS315, binding at the PIF-pocket, induces a displacement of the active site residue Lys111, thereby inhibiting the activity of aPKCs by allosterically affecting the catalytic mechanism of the kinase. Preincubation of U937 cells with 5 μ M PS315 inhibits TNF- α caused NF- κ B activation by 74%, whereas complete inhibition is observed with 10 μ M PS315. The small allosteric inhibitor PS315 and the N-terminal region of aPKC both act directly on the PIF-pocket on-off switch[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.756 mL	13.78 mL	27.56 mL
5 mM	0.551 mL	2.756 mL	5.512 mL
10 mM	0.276 mL	1.378 mL	2.756 mL
50 mM	0.055 mL	0.276 mL	0.551 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Zhang H, et al. Molecular mechanism of regulation of the atypical protein kinase C by N-terminal domains and an allosteric small compound. Chem Biol. 2014 Jun 19;21(6):754-65.

Inhibitors · Natural Compounds · Compound Libraries

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