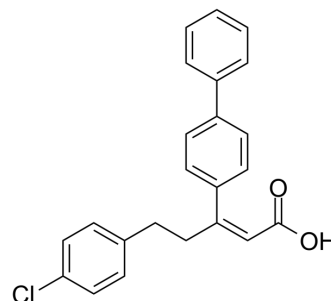


PS315

Cat. No.:	HY-124308
CAS No.:	1221964-50-6
Molecular Formula:	C ₂₃ H ₁₉ ClO ₂
Molecular Weight:	362.85
Target:	PKC
Pathway:	Epigenetics; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PS315, a derivative of PS48 (HY-15967), is an allosteric PKC inhibitor by binding to the PIF-pocket of aPKC and inducing a displacement of the active site residue Lys111. 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 ^[1] .	
IC₅₀ & Target	PKC ζ 10 μ M (IC ₅₀)	PKC η 30 μ M (IC ₅₀)
In Vitro	<p>Preincubation of U937 cells with 5 μM PS315 inhibits TNF-α induced NF-κB activation by 74%, whereas complete inhibition is observed with 10 μM PS315^[1].</p> <p>The small allosteric inhibitor PS315 and the N-terminal region of aPKC both act directly on the PIF-pocket on-off switch. 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^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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