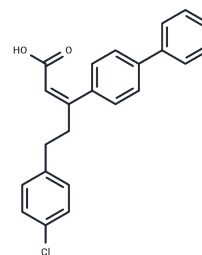


PS315

## Chemical Properties

CAS No. : 1221964-50-6  
 Formula: C<sub>23</sub>H<sub>19</sub>ClO<sub>2</sub>  
 Molecular Weight: 362.85  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	PS315 inhibits the full-length and catalytic domain constructs of PKCζ (IC <sub>50</sub> =10 μM) and PKCη (IC <sub>50</sub> =30 μM). 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 <sub>50</sub> )	PKC
In vitro	PS315, by attaching to the PIF-pocket, prompts a shift in the active site residue Lys111, effectively inhibiting aPKCs through an allosteric impact on the enzyme's catalytic process. A pre-treatment of U937 cells with 5 μM PS315 results in a 74% reduction in TNF-α-induced NF-κB activation, with total inhibition achieved at 10 μM PS315. The allosteric inhibitor PS315, along with the N-terminal region of aPKC, directly influences the PIF-pocket on-off switch[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.756 mL	13.7798 mL	27.5596 mL
5 mM	0.5512 mL	2.756 mL	5.5119 mL
10 mM	0.2756 mL	1.378 mL	2.756 mL
50 mM	0.0551 mL	0.2756 mL	0.5512 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

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.

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