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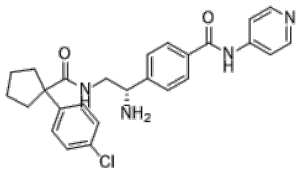
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CP612
Cat. No.	:	PC-24452
CAS No.	:	
Molecular Formula	:	$C_{26}H_{27}ClN_4O_2$
Molecular Weight	:	462.98
Target	:	PKC
Solubility	:	10 mM in DMSO



Biological Activity

CP612 (CIDD-0150612) is a potent, specific inhibitor of **protein kinase C epsilon** (PKC epsilon, **PKCε**) with IC50 of 1.1 nM, 40-fold more selective against PKCε over ROCK1.
CP612 did not inhibit atypical PKCζ, weakly inhibited conventional PKCβII and PKCγ, and within the nPKC subfamily, and a clean selectivity against 468 kinases using the scanMax assay panel from Eurofins-DiscoverX (468 kinases).
CP612 inhibits PKCε by competing with ATP.
CP612 could enter the brain and is cleared from brain at a much slower rate than from plasma.
CP612 inhibits PKCε-dependent mechanical hyperalgesia, does not alter morphine self-administration.
CP612 prevents and reverses hyperalgesia induced by morphine withdrawal.
CP612 shows beneficial effects on insulin action in hepatocytes and on fat mass and glucose homeostasis in mice.

References

Gregory-Flores A, et al. bioRxiv : the preprint server for biology, 2023 (2023), Article 543325

Agoncillo ML, et al. ***Eur J Pharmacol***. 2025 Mar 5:177465.

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