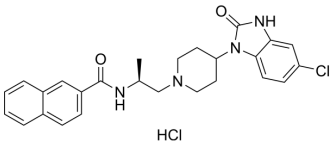
VU0155069 hydrochloride

Cat. No.:	HY-108612A
CAS No.:	1781834-89-6
Molecular Formula:	$C_{26}H_{28}Cl_2N_4O_2$
Molecular Weight:	499.43
Target:	Phospholipase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	VU0155069 hydrochloride (CAY10593 hydrochloride) is a potent selective phospholipase D (PLD) inhibitor. The IC_{50} values for PLD1 and PLD2 are 46 and 933 nM, respectively. VU0155069 hydrochloride inhibits migration of human and mouse breast cancer cell lines[1][2].
IC_{50} & Target	PLD1 46 nM (IC_{50})
In Vitro	VU0155069 (0.5 μM, 1 h) significantly inhibits (R)-DOI (3 μM)-induced [^{3}H]PtdBut production in MCF-7 cells[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Scott SA, et al. Design of isoform-selective phospholipase D inhibitors that modulate cancer cell invasiveness. Nat Chem Biol. 2009 Feb;5(2):108-17.

[2]. Lewis JA,et al. Design and synthesis of isoform-selective phospholipase D (PLD) inhibitors. Part I: Impact of alternative halogenated privileged structures for PLD1 specificity. Bioorg Med Chem Lett. 2009 Apr 1;19(7):1916-20.

[3]. Barclay Z, et al. Attenuated PLD1 association and signalling at the H452Y polymorphic form of the 5-HT(2A) receptor. Cell Signal. 2013 Apr;25(4):814-21.

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