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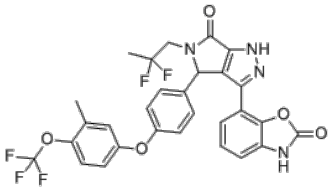
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	DS68591889
Cat. No.	:	PC-21523
CAS No.	:	2488609-21-6
Molecular Formula	:	$C_{29}H_{21}F_5N_4O_5$
Molecular Weight	:	600.50
Target	:	Other Targets
Solubility	:	10 mM in DMSO



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Biological Activity

DS68591889 (PTDSS1i) is a potent, selective phosphatidylserine synthase 1 (**PTDSS1**) inhibitor, highly sellective over PTDSS2, induces phospholipid imbalance in a wide range of cancer cells.
DS68591889 (PTDSS1i) (1 uM) caused a substantial loss of PS and phosphatidylethanolamine, along with a slight decrease in phosphatidylglycerol (PG) and sphingomyelin (SM) and an increase in phosphatidic acid (PA) in Hela cells.
DS68591889 (PTDSS1i) (10, 30, or 100 mg/kg, oral) suppressed Jeko-1 cell engraftment in the bone marrow in B cell lymphoma in vivo.
DS68591889 (PTDSS1i) negatively regulates BCR-induced Ca2+ signaling and cell death, does not overtly affect the morphology of organelles, cell surface expression of BCR signaling components, or BCR-induced phosphorylation of downstream molecules.
DS68591889 (PTDSS1i) efficiently suppressed tumor growth and prolonged survival in mouse xenograft model.

References

Jumpei Omi, et al. ***J Cell Biol.*** 2024 Feb 5;223(2):e202212074.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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