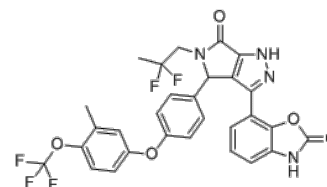


Product Name : DS68591889
Cat. No. : PC-21523
CAS No. : 2488609-21-6
Molecular Formula : C₂₉H₂₁F₅N₄O₅
Molecular Weight : 600.50
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 2488609-21-6

Biological Activity

DS68591889 (PTDSS1i) is a potent, selective phosphatidylserine synthase 1 (**PTDSS1**) inhibitor, highly selective 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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