

Pim-1 kinase inhibitor 9

Chemical Properties

CAS No. :

Formula: C₃₆H₂₄F₂N₄S₂

Molecular Weight:

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

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| Description | Pim-1 kinase inhibitor 9 (compound 8b) is a specific inhibitor targeting Pim-1 kinase, with an IC ₅₀ value of 0.24 μM. It causes cell cycle arrest at the S phase in breast cancer T47D cells and exhibits antitumor activity. |
| Targets(IC ₅₀) | Pim |
| In vitro | Pim-1 kinase inhibitor 9 effectively suppresses the proliferation of breast cancer cells T47D, with IC ₅₀ values of 9.8 μM at 48 hours and 2.61 μM at 96 hours. It also inhibits the activity of Pim-1 kinase and Pim-2 kinase, with IC ₅₀ values of 0.24 μM for Pim-1 kinase and 10.53 μM for Pim-2 kinase. |
| In vivo | The growth of mouse Ehrlich solid tumors is inhibited by Pim-1 kinase inhibitors 9 (1 mg/kg, administered once a week for three weeks via intraperitoneal injection) through the enhancement of caspase-3 expression and the suppression of VEGF expression. |

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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