

Product Datasheet

KY-05009 (orb1940792)

Catalog Number	orb1940792
Category	Small Molecules
Description	<p>KY-05009 pharmacologically inhibits TGF-β1-induced epithelial-to-mesenchymal transition (EMT) in human lung adenocarcinoma cells. KY-05009 inhibits the protein expression of TNIK and transcriptional activity of Wnt target genes and induces apoptosis in cancer cells. KY-05009 exerts anti-cancer activity. KY-05009 is an ATP-competitive Traf2- and Nck-interacting kinase (TNIK) inhibitor (Ki = 100 nM). (In Vitro):KY-05009 (1-3 μM; 48-72 hours; RPMI8226 cells) treatment induces caspase-dependent apoptosis in RPMI8226 cells in a dose-dependent manner. KY-05009 (3 μM; 1 hour; RPMI8226 cells) treatment suppresses the transcriptional activity of Wnt signaling-related genes, including TNIK, CTNNB1, TCF7, and TCF4. KY-05009 (3 μM; 9 hours; RPMI8226 cells) treatment inhibits the IL-6-induced interaction between TCF4 and β-catenin and the phosphorylation of TCF4. KY-05009 (0.1-30 μM; 24 hours; RPMI8226 cells) treatment inhibits the proliferation of RPMI8226 cells in a dose-dependent manner.</p>
Target	Wnt/beta/catenin
Purity	>98% (HPLC)
MW	352.41
Solubility (25°C)	In Vitro: DMSO : 83.33 mg/mL (236.46 mM)
CAS Number	1228280-29-2
Formula	C ₁₈ H ₁₆ N ₄ O ₂ S
SMILES	<chem>Cc1ccc(cc1)C(=O)Nc1sc(Nc2ccccc2)nc1C(N)=O</chem>
Storage	Storage temperature: -20°C. Stability: \geq 2 years
Note	For research use only

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Expiration Date 12 months from date of receipt.

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