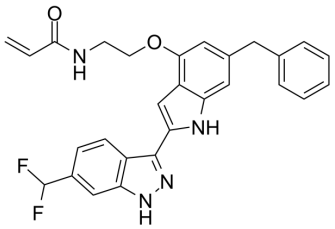
ITK inhibitor 6

Cat. No.:	HY-146672
CAS No.:	2404604-06-2
Molecular Formula:	$C_{28}H_{24}F_2N_4O_2$
Molecular Weight:	486.51
Target:	Itk
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ITK inhibitor 6 (compound 43) is a potent and selective ITK inhibitor with IC_{50}s of 4 nM, 133 nM, 320 nM, 2360 nM, 155 nM for ITK, BTK, JAK3, EGFR, LCK, respectively. ITK inhibitor 6 inhibits phosphorylation of PLCγ1 and ERK1/2. ITK inhibitor 6 shows antiproliferative activities[1].
IC_{50} & Target	IC_{50}: 4 nM (ITK); 133 nM (BTK), 320 nM (JAK3), 2360 nM (EGFR), 155 nM (LCK)[1]
In Vitro	ITK inhibitor 6 (compound 43) shows antiproliferative activities with GI_{50}s of 5.1, 3.7, 3.4, 5.4, 19 μM for Jurkat, Molt-4, CCRF-CEM, H9, HEK 293 T cells, respectively[1]. ITK inhibitor 6 docks into the ATP-binding site of ITK and BTK[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang X, et al. Design, synthesis and structure-activity relationship of indolylindazoles as potent and selective covalent inhibitors of interleukin-2 inducible T-cell kinase (ITK). Eur J Med Chem. 2020 Feb 1;187:111918.

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