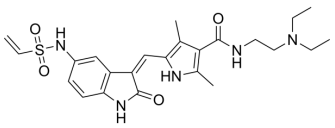
BSc5371

Cat. No.:	HY-111545
CAS No.:	2286419-03-0
Molecular Formula:	$C_{24}H_{31}N_5O_4S$
Molecular Weight:	485.6
Target:	FLT3
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BSc5371 is a potent and irreversible FLT3 inhibitor, with K_ds of 1.3, 0.83, 1.5, 5.8 and 2.3 nM for mutant FLT3(D835H), FLT3(ITD, D835V), FLT3(ITD, F691L), FLT3-ITD and wild type FLT3wt, respectively. BSc5371 is cytotoxic to FLT3-dependent cell lines[1].
IC_{50} & Target	Kd: 1.3 nM (LT3(D835H)), 0.83 nM (LT3(ITD, D835V)), 1.5 nM (LT3(ITD, F691L)), 5.8 nM (FLT3-ITD), 2.3 nM (FLT3wt)[1]
In Vitro	BSc5371 (5 μM-0.5 nM, 77 hours) exhibits inhibitory activity against FLT3-mutated (MV4-11) cells, with an IC_{50} of 6 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay[1]

Cell Line:	MV4-11 cells
Concentration:	0.5 nM, 2.5 nM, 5 nM, 25 nM, 50 nM, 250 nM, 500 nM and 5 μM
Incubation Time:	77 hours
Result:	Exhibited inhibitory activity against MV4-11 cells, with an IC_{50} of 6 nM.

REFERENCES

[1]. Bensinger D, et al. Virtual Screening Identifies Irreversible FMS-like Tyrosine Kinase 3 Inhibitors with Activity toward Resistance-Conferring Mutations. J Med Chem. 2019 Mar 14;62(5):2428-2446.

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