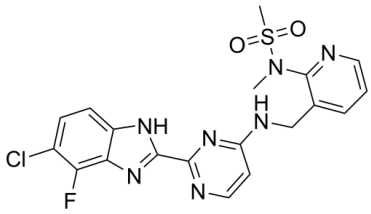
Data Sheet

Product Name:	MSC-1186
Cat. No.:	CS-0633902
CAS No.:	2871698-23-4
Molecular Formula:	$C_{19}H_{17}ClFN_7O_2S$
Molecular Weight:	461.90
Target:	SRPK
Pathway:	Cell Cycle/DNA Damage
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

MSC-1186 is a highly selective **pan-SRPK** inhibitor. MSC-1186 has activity for SRPK1, SRPK2 and SRPK3 with **IC_{50}** values of 2.7 nM, 81 nM and 0.6 nM, respectively. MSC-1186 can be used for the research of cancer[1]. IC50 & Target:IC50: 2.7 nM (SRPK1), 81 nM (SRPK2), 0.6 nM (SRPK3); EC50 in HEK293T cells: 98 nM (SRPK1), 40 nM (SRPK3)[1]. ***In Vitro:*** MSC-1186 has activity for SRPK1 and SRPK3 in HEK293T cells with EC_{50} values of 98 nM and 40 nM, respectively[1].

MSC-1186 has activity for SRPK1, SRPK2 and SRPK3 with IC_{50} values of 2.7 nM, 81 nM and 0.6 nM, respectively[1].

MSC-1186 has excellent kinome-wide selectivity[1].

MSC-1186 shows additive attenuation of SR-protein phosphorylation when is used in combination with CDC2-like kinase (CLK) inhibitors[1].

References:

[1]. Martin Schröder, et al. MSC-1186, a Highly Selective Pan-SRPK Inhibitor Based on an Exceptionally Decorated Benzimidazole-Pyrimidine Core. J Med Chem. 2022 Dec 14.

CAIndexNames:

Methanesulfonamide, N-[3-[[[2-(6-chloro-7-fluoro-1H-benzimidazol-2-yl)-4-pyrimidinyl]amino]methyl]-2-pyridinyl]-N-methyl-

SMILES:

CS(=O)(N(C1=NC=CC=C1CNC2=NC(C3=NC4=C(F)C(Cl)=CC=C4N3)=NC=C2)C)=O

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