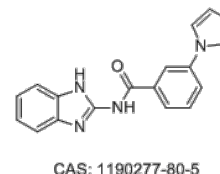


Product Name : MKI-1
Cat. No. : PC-20555
CAS No. : 1190277-80-5
Molecular Formula : C₁₈H₁₄N₄O
Molecular Weight : 302.34
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

MKI-1 (MASTL inhibitor 1) is a small molecule **MASTL** (microtubule-associated serine/threonine kinase-like, Greatwall/GWL) inhibitor with IC₅₀ of 9.9 uM.

MKI-1 (15 μM, 20h) inhibited the phosphorylation of ENSA in MCF7 and T47D cells, also inhibited the phosphorylation of ENSA in colcemid-induced mitotic MCF7 cells, did not modulate phosphorylated AKT, GSK-3β, and p70S6K.

MKI-1 inhibits various oncogenic properties of MCF7 cells and does not affect the viability of MCF10A cells.

MKI-1 reduces tumor growth and radiosensitivity of breast cancer cells.

MKI-1 reduces c-Myc stability through PP2A activation in MCF7 cells, inhibits meiotic resumption and spindle formation in mouse oocytes.

References

Kim AY, et al. *Front Oncol.* 2020 Sep 29;10:571601.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com