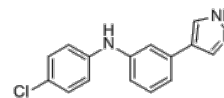


Product Name : GKI-1
Cat. No. : PC-20557
CAS No. : 2444764-03-6
Molecular Formula : C₁₅H₁₂ClN₃
Molecular Weight : 269.73
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 2444764-03-6

Biological Activity

GKI-1 (Greatwall Kinase Inhibitor-1) is a specific small-molecule inhibitor of MASTL (microtubule-associated serine/threonine kinase-like, Greatwall/GWL) with IC₅₀ of 10.2 μ M.

GKI-1 inhibits hGWLFL and hGWL-KinDom with IC₅₀ of 4.9 and 2.5 μ M respectively.

GKI-1 displays 2-fold selectivity for binding to hGWLFL over ROCK1, and > 8-fold selectivity over PKA.

GKI-1 reduces ENSA/ARPP19 phosphorylation levels in HeLa cells, resulting in a decrease in mitotic events, mitotic arrest/cell death and cytokinesis failure, which is comparable to siRNA depletion of GWL.

References

Ocasio CA, et al. Oncotarget. 2016 Nov 1;7(44):71182-71197.

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