

## GKI-1 HCl

## Chemical Properties

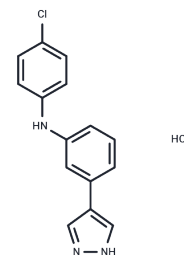
CAS No. :

Formula: C<sub>15</sub>H<sub>13</sub>Cl<sub>2</sub>N<sub>3</sub>

Molecular Weight: 306.19

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	GKI-1 HCl is a Greatwall (GWL) kinase inhibitor that inhibits hGWLFL and hGWL-KinDom. The inhibitory effect of GKI-1 HCl on ROCK1 is more significant.
Targets(IC50)	ROCK
In vitro	GKI-1 (25 and 50 $\mu$ M, 0-8.5 h) reduces ENSA/ARPP19 phosphorylation levels in Hela cells, resulting in a decrease in mitotic events, mitotic arrest/cell death, and cytokinesis failure.[1]

## Solubility Information

Solubility	DMSO: 45 mg/mL (146.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2659 mL	16.3297 mL	32.6595 mL
5 mM	0.6532 mL	3.2659 mL	6.5319 mL
10 mM	0.3266 mL	1.633 mL	3.2659 mL
50 mM	0.0653 mL	0.3266 mL	0.6532 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Ocasio CA, et al. A first generation inhibitor of human Greatwall kinase, enabled by structural and functional characterisation of a minimal kinase domain construct. *Oncotarget*. 2016;7(44):71182-71197.

Gouttia OG, et al. The MASTL-ENSA-PP2A/B55 axis modulates cisplatin resistance in oral squamous cell carcinoma. *Front Cell Dev Biol*. 2022;10:904719. Published 2022 Sep 28.

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