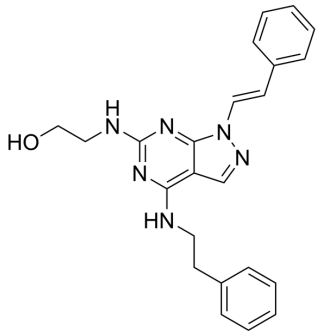
SI-113

Cat. No.:	HY-117357
CAS No.:	1392816-46-4
Molecular Formula:	$C_{23}H_{24}N_6O$
Molecular Weight:	400.48
Target:	SGK
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (624.25 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4970 mL	12.4850 mL	24.9700 mL
	5 mM	0.4994 mL	2.4970 mL	4.9940 mL
	10 mM	0.2497 mL	1.2485 mL	2.4970 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SI-113 is a SGK1 inhibitor, with an IC_{50} of 600 nM. SI113 induces autophagy[1][2].

In Vitro

SI-113 exhibits IC_{50} values of 10.5, 14.4 and 10.7 μM in GIN8, GIN28 and GCE28 GBM cells[1].
SI-113 induces significant increases in caspase-3/7 activation in all GBM cell lines[1].
SI-113 induces autophagy and synergizes with quinacrine in hindering the growth of human glioblastoma multiforme cells[2].
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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Marco Radi , et al. A combined targeted/phenotypic approach for the identification of new antiangiogenics agents active on a zebrafish model: from in silico screening to cyclodextrin formulation. Bioorg Med Chem Lett. 2012 Sep 1;22(17):5579-83.

[2]. Silvia Matteoni, et al. The kinase inhibitor SI113 induces autophagy and synergizes with quinacrine in hindering the growth of human glioblastoma multiforme cells. J

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