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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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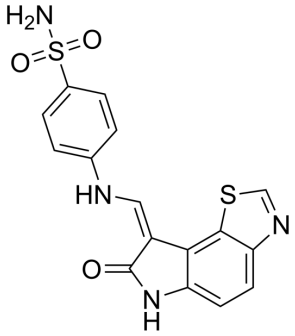
GW297361

Cat. No.:	HY-153556
CAS No.:	388627-21-2
Molecular Formula:	$C_{16}H_{12}N_4O_3S_2$
Molecular Weight:	372.42
Target:	CDK; VEGFR; Src
Pathway:	Cell Cycle/DNA Damage; Protein Tyrosine Kinase/RTK
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (268.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6851 mL	13.4257 mL	26.8514 mL
	5 mM	0.5370 mL	2.6851 mL	5.3703 mL
	10 mM	0.2685 mL	1.3426 mL	2.6851 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (6.71 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (6.71 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

GW297361 is an oxindole CDK inhibitor that elicits a Pho85-selective response in cells. GW297361 inhibits yeast Cdk1 and Pho85 with IC_{50}s of 20 nM and 400 nM in vitro, respectively[1].

IC_{50} & Target

yeast Cdk1 20 nM (IC_{50})	yeast Pho85 400 nM (IC_{50})	human CDK2 1.9 nM (IC_{50})	human CDK9 10 nM (IC_{50})
human CDK1 30 nM (IC_{50})	human CDK4 300 nM (IC_{50})	VEGFR2 120 nM (IC_{50})	SRC 930 nM (IC_{50})

In Vitro

GW297361 (20 μM; 15 min) partially inhibits Cdk1 within cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	YRP1 cells
Concentration:	20 μM
Incubation Time:	20 μM
Result:	An intermediate level of the Orc6 was converted to the faster-migrating isoform (lower:upper = 2:1).

REFERENCES

[1]. Kung C, et al. Selective kinase inhibition by exploiting differential pathway sensitivity. Chem Biol. 2006 Apr;13(4):399-407.

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