CD532 hydrochloride

Cat. No.: HY-112273A

CAS No.: 2926498-81-7

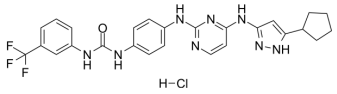
Molecular Formula: $C_{26}H_{26}ClF_3N_8O$

Molecular Weight: 558.99

Target: Aurora Kinase

Pathway: Cell Cycle/DNA Damage; Epigenetics

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (178.89 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7889 mL	8.9447 mL	17.8894 mL
	5 mM	0.3578 mL	1.7889 mL	3.5779 mL
	10 mM	0.1789 mL	0.8945 mL	1.7889 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 (4.47 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

CD532 hydrochloride is a potent Aurora A kinase inhibitor with an IC_{50} of 45 nM. CD532 hydrochloride has the dual effect of blocking Aurora A kinase activity and driving degradation of MYCN. CD532 hydrochloride also can directly interact with AURKA and induces a global conformational shift. CD532 hydrochloride can be used for the research of cancer[1][2].

REFERENCES

[1]. Gustafson WC, et, al. Drugging MYCN through an allosteric transition in Aurora kinase A. Cancer Cell. 2014 Sep 8;26(3):414-427.

[2]. Lee JK, et, al. N-Myc Drives Neuroendocrine Prostate Cancer Initiated from Human Prostate Epithelial Cells. Cancer Cell. 2016 Apr 11;29(4):536-547.

Caution: Product has not been fully validated for medical applications. For research use only.

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