

## Cmpd-A

## Chemical Properties

CAS No. :	1446399-26-3
Formula:	C30H27F4N5O4S
Molecular Weight:	629.63
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	Cmpd-A is a time-dependent inhibitor of Centromere-associated protein E (CENP-E). It inhibits ATPase activity and exhibits an ATP-competitive-like behavior. In cellular models, Cmpd-A causes chromosome misalignment and leads to mitotic arrest, thereby inhibiting tumor cell proliferation.
Targets(IC50)	Microtubule Associated

## Solubility Information

Solubility	DMSO: 50 mg/mL (79.41 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	1.5882 mL	7.9412 mL	15.8823 mL
5 mM	0.3176 mL	1.5882 mL	3.1765 mL
10 mM	0.1588 mL	0.7941 mL	1.5882 mL
50 mM	0.0318 mL	0.1588 mL	0.3176 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

- Ohashi A, et al. A Novel Time-Dependent CENP-E Inhibitor with Potent Antitumor Activity. PLoS One. 2015 Dec 9;10 (12):e0144675.
- Ohashi A, et al. Aneuploidy generates proteotoxic stress and DNA damage concurrently with p53-mediated post-mitotic apoptosis in SAC-impaired cells. Nat Commun. 2015 Jul 6;6:7668.

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