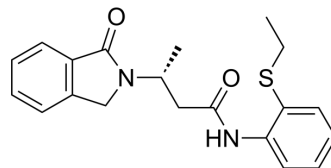


VCP Activator 1

Cat. No.:	HY-157508
Molecular Formula:	C ₂₀ H ₂₂ N ₂ O ₂ S
Molecular Weight:	354.47
Target:	p97
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 300 mg/mL (846.33 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8211 mL	14.1056 mL	28.2111 mL
	5 mM	0.5642 mL	2.8211 mL	5.6422 mL
	10 mM	0.2821 mL	1.4106 mL	2.8211 mL

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

BIOLOGICAL ACTIVITY

Description

VCP Activator 1 is a VCP activator that dose-dependently stimulates VCP ATPase activity. VCP Activator 1 binds an allosteric pocket near the C-terminus. In addition, VCP Activator 1 binding site can also be occupied by a phenylalanine residue in the VCP C-terminal tail^[1].

REFERENCES

[1]. Jones NH, et al. Allosteric activation of VCP, a AAA unfoldase, by small molecule mimicry. bioRxiv [Preprint]. 2023 Oct 2:2023.10.02.560478.

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

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