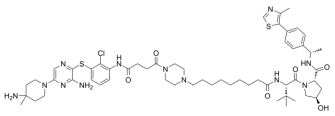
SHP2-D26

Cat. No.:	HY-145162
CAS No.:	2458219-65-1
Molecular Formula:	$C_{56}H_{79}ClN_{12}O_6S_2$
Molecular Weight:	1115.89
Target:	Phosphatase; PROTACs; SHP2
Pathway:	Metabolic Enzyme/Protease; PROTAC; Protein Tyrosine Kinase/RTK
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 : 83.33 mg/mL (74.68 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.8961 mL	4.4807 mL	8.9615 mL
	5 mM	0.1792 mL	0.8961 mL	1.7923 mL
	10 mM	0.0896 mL	0.4481 mL	0.8961 mL

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

BIOLOGICAL ACTIVITY

Description

SHP2-D26 is a first, potent and effective SHP2 degrader. SHP2-D26 induces SHP2 degradation requires binding to VHL-1 and SHP2 proteins. SHP2-D26 is also neddylation- and proteasome-dependent[1].

IC_{50} & Target

SHP2[1]

In Vitro

SHP2-D26 (0, 3, 10, 30, 100, 300 nM; 12 hours) effectively reduces SHP2 protein in a dosedependent manner, with DC_{50} values of 6.0 nM, 2.6 nM in KYSE520 and MV-4-11 cells, respectively[1].

SHP2-D26 (100 nM; 0, 2, 4, 8, 12, 24 hours) reduces the SHP2 protein level within 4 h and completes SHP2 depletion with 8 h in KYSE520 and MV-4-11 cells[1].

SHP2-D26 (0-100 μM for KYSE520 cells; 0-10 nM for MV-4-11 cells; 4 days) achieves IC_{50} values of 0.66 μM, 0.99 nM in KYSE520 and MV-4-11 cells, respectively[1].

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

Cell Proliferation Assay[1]

Cell Line:	KYSE520 and MV-4-11 cells
Concentration:	0-100 μM for KYSE520 cells; 0-10 nM for MV-4-11 cells
Incubation Time:	4 days
Result:	Achieved IC_{50} values of 0.66 μM, 0.99 nM in KYSE520 and MV-4-11 cells, respectively.

Western Blot Analysis[1]

Cell Line:	KYSE520 and MV-4-11 cells
Concentration:	0, 3, 10, 30, 100, 300 nM
Incubation Time:	12 hours
Result:	Reduced SHP2 protein in a dosedependent manner, with DC_{50} values of 6.0 and 2.6 nM in KYSE520 and MV-4-11 cells, respectively.

Western Blot Analysis[1]

Cell Line:	KYSE520 and MV-4-11 cells
Concentration:	100 nM
Incubation Time:	0, 2, 4, 8, 12, 24 hours
Result:	Reduced the SHP2 protein level within 4 h and completed SHP2 depletion with 8 h.

REFERENCES

[1]. Wang M, et al. Discovery of SHP2-D26 as a First, Potent, and Effective PROTAC Degrader of SHP2 Protein [published correction appears in J Med Chem. 2021 Jan 14;64(1):906-908]. J Med Chem. 2020;63(14):7510-7528.

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