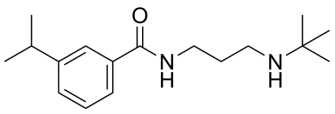
UNC3474

Cat. No.:	HY-156906
CAS No.:	1648707-79-2
Molecular Formula:	$C_{17}H_{28}N_2O$
Molecular Weight:	276.42
Target:	Others
Pathway:	Others

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (361.77 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.6177 mL	18.0884 mL	36.1768 mL
	5 mM	0.7235 mL	3.6177 mL	7.2354 mL
	10 mM	0.3618 mL	1.8088 mL	3.6177 mL

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

BIOLOGICAL ACTIVITY

Description

UNC3474 is a small molecule ligand, binding with 53BP1. UNC3474 binds the aromatic methyl-lysine binding cage of 53BP1^{TT}, with a dissociation constant (K_d) of 1.0 ± 0.3 μM. UNC3474 inhibits the recruitment of 53BP1 to DSBs by stabilizing a pre-existing autoinhibited state of 53BP1 in cells[1].

In Vitro

Unlike WT 53BP1^{TT}, 53BP1^{TT}-PN dose not interact with UNC3474[1].

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

REFERENCES

[1]. Cui G, et al. An autoinhibited state of 53BP1 revealed by small molecule antagonists and protein engineering. bioRxiv [Preprint]. 2023 Jul 18:2023.04.20.534960.

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

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