

KT185

## Chemical Properties

CAS No. :	1472640-86-0
Formula:	C32H33N5O2
Molecular Weight:	519.64
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	KT185 is an orally bioavailable, highly selective, blood-brain barrier-permeable small-molecule inhibitor of $\alpha/\beta$ -hydrolyase domain protein 6 (ABHD6), with an inhibitory concentration ( $IC_{50}$ ) of 0.21 nM against ABHD6. KT185 effectively inhibits ABHD6-mediated hydrolysis of 2-arachidonylglycerol (2-AG) and is used to study the role of ABHD6 in central nervous system and metabolic signaling pathways.
Targets( $IC_{50}$ )	Lipase

## Solubility Information

Solubility	DMSO: 24 mg/mL (46.19 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	1.9244 mL	9.622 mL	19.2441 mL
5 mM	0.3849 mL	1.9244 mL	3.8488 mL
10 mM	0.1924 mL	0.9622 mL	1.9244 mL
50 mM	0.0385 mL	0.1924 mL	0.3849 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

Hsu KL, et al. Discovery and optimization of piperidyl-1,2,3-triazole ureas as potent, selective, and in vivo-active inhibitors of  $\alpha/\beta$ -hydrolase domain containing 6 (ABHD6). J Med Chem. 2013 Nov 14;56(21):8270-9.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481