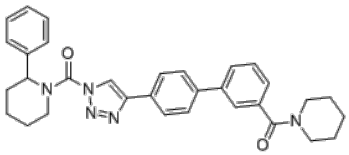
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	KT-185
Cat. No.	:	PC-20131
CAS No.	:	1472640-86-0
Molecular Formula	:	$C_{32}H_{33}N_5O_2$
Molecular Weight	:	519.65
Target	:	Phospholipase
Solubility	:	10 mM in DMSO



Biological Activity

KT-185 (KT185) is a potent, selective, irreversible and orally-active α/β-hydrolase domain 6 (**ABHD6**) inhibitor with IC50 of 0.21 nM.
KT-185 inhibits ABHD6 in a 2-arachidonoyl glycerol (2-AG) hydrolysis assay (IC50=13.6 nM for the mouse recombinant enzyme expressed in HEK293T cells).
KT185 is selective for ABHD6 over diacylglycerol lipase β (DAGLβ) at 1 μM, but inhibits lysophospholipase 1 (LYPLA1) and LYPLA2 at 10 μM.
KT185 (5-10 mg/kg) inhibits ABHD6 activity in mouse liver and brain in vivo.
KT185 inhibits increases in the frequency of spontaneous inhibitory post-synaptic currents (sIPSCs) induced by nicotine in the rat ventral tegmental area (VTA) but does not reduce nicotine self-administration in rats.

References

Ku-Lung Hsu, et al. ***J Med Chem.*** 2013 Nov 14;56(21):8270-9.

Matthew W Buczynski, et al. ***Proc Natl Acad Sci U S A.*** 2016 Jan 26;113(4):1086-91.

E-mail: tech@probechem.com