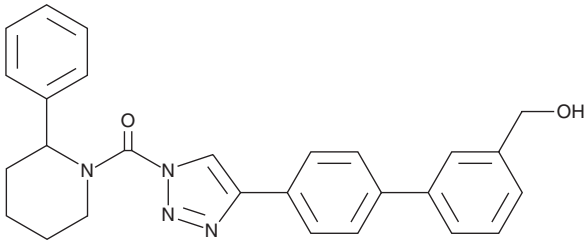
PRODUCT INFORMATION

KT182

Item No. 15404

CAS Registry No.:	1402612-62-7
Formal Name:	[4-[3'-(hydroxymethyl)[1,1'-biphenyl]-4-yl]-1H-1,2,3-triazol-1-yl](2-phenyl-1-piperidinyl)-methanone
MF:	$C_{27}H_{26}N_4O_2$
FW:	438.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 280 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

KT182 is supplied as a crystalline solid. A stock solution may be made by dissolving the KT182 in the solvent of choice. KT182 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of KT182 in these solvents is approximately 10 mg/ml.

Description

KT182 is a potent inhibitor of α/β-hydrolase domain-containing protein 6 (ABHD6) with IC_{50} values of 1.7, 15.1, and 0.24 nM using Neuro2a membrane proteomes, recombinant ABHD6 in HEK293T cells, and Neuro2a cells *in situ*, respectively.[1] Following administration of KT182 (1 mg/kg, i.p.) in mice, ABHD6 is inactivated in liver and brain extracts, suggesting that it is brain-penetrant, unlike the closely related compound KT203 (Item No. 14819).

Reference

1. Hsu, K.L., Tsuboi, K., Chang, J.W., *et al.* Discovery and optimization of piperidyl-1,2,3-triazole ureas as potent, selective, and in vivo-active inhibitors of α/β-hydrolase domain containing 6 (ABHD6). *J. Med. Chem.* **56(21)**, 8270-8279 (2013).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM