

Product Name: KT 182

Catalog No.: 6738

Batch No.: 1

CAS Number: 1402612-62-7

IUPAC Name: [4-[3'-(Hydroxymethyl)[1,1'-biphenyl]-4-yl]-1*H*-1,2,3-triazol-1-yl](2-phenyl-1-piperidyl)methanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₆N₄O₂·¼H₂O

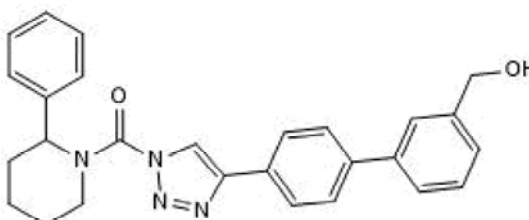
Batch Molecular Weight: 443.03

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.2	6.03	12.65
Found	73.32	6.02	12.78

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

KT 182 is a potent, selective and irreversible α/β -hydrolase domain 6 (ABHD6) inhibitor ($IC_{50} = 1.7$ nM). KT 182 exhibits selectively for ABHD6 over other brain and liver serine hydrolases, but does exhibit some activity at carboxylesterase-1. KT 182 inhibits ABHD6 activity in the brain and liver in mice following intraperitoneal administration.

Physical and Chemical Properties:

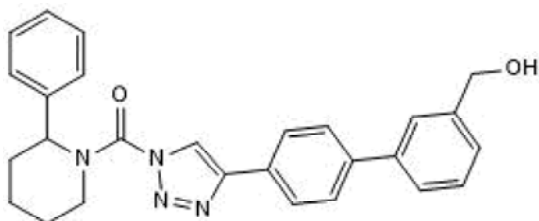
Batch Molecular Formula: $C_{27}H_{26}N_4O_2 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 443.03

Physical Appearance: Off White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Hsu *et al* (2013) 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** 8270. PMID: 24152295.

Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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