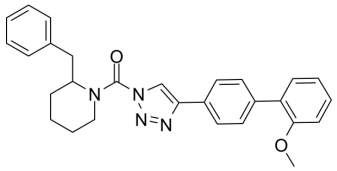
KT172

Cat. No.:	HY-18541
CAS No.:	1402612-56-9
Molecular Formula:	$C_{28}H_{28}N_4O_2$
Molecular Weight:	452.55
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 10 mg/mL (22.10 mM)

DMF : ≥ 5 mg/mL (11.05 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2097 mL	11.0485 mL	22.0970 mL
5 mM	0.4419 mL	2.2097 mL	4.4194 mL
10 mM	0.2210 mL	1.1049 mL	2.2097 mL

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

BIOLOGICAL ACTIVITY

Description

KT172 is a DAGLβ inhibitor with an IC_{50} value of 11 nM. KT172 can be used for the research of metabolic and inflammatory[1].

IC_{50} & Target

IC50: 11 nM (DAGLβ)[1]

In Vitro

KT172 (0-100 μM) has DAGLβ inhibition activity with an IC_{50} value of 11 nM[1].

KT172 (2 μM) blocks probe-labeling of DAGLβ and ABHD6 activities[1].

KT172 (100 nM, 4 h) blocks DAGLβ activity in situ in the human prostate cancer cell line PC3 with high selectivity[1].

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

Western Blot Analysis[1]

Cell Line:	Neuro2A cells
Concentration:	25 nM

Incubation Time:	4 h
Result:	DAGLβ activity and its inhibition by KT172 were detected only by HT-01 probe.

REFERENCES

[1]. Ku-Lung Hsu, et al. DAGLβ inhibition perturbs a lipid network involved in macrophage inflammatory responses. Nat Chem Biol. 2012 Dec;8(12):999-1007.

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

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