ML148

Cat. No.: HY-123548

CAS No.: 451496-96-1

Molecular Formula: $C_{20}H_{21}N_3O$

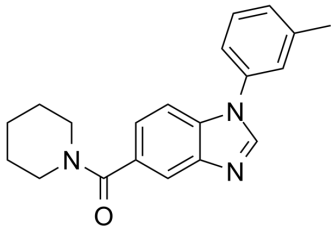
Molecular Weight: 319.4

Target: 15-PGDH

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (156.54 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1309 mL	15.6544 mL	31.3087 mL
	5 mM	0.6262 mL	3.1309 mL	6.2617 mL
	10 mM	0.3131 mL	1.5654 mL	3.1309 mL

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

BIOLOGICAL ACTIVITY

Description

ML148 is a potent and selective 15-PGDH inhibitor with an IC_{50} of 56 nM. ML148 has the potential for the research of prostaglandin-signaling pathways[1].

IC_{50} & Target

IC_{50}: 56 nM (15-PGDH)[1]

In Vitro

ML148 (compound 13) shows selectivity with IC_{50}s of 56, 36000, >57500, >57500 nM for 15-PGDH, ALDH1A1, HADH2, HSD17 β4, respectively[1].

ML148 (10, 20 nM) decrease V_{max} by 25% and reduces the apparent K_m by half at a concentration of 10 nM[1].

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

REFERENCES

[1]. Niesen FH, et al. High-affinity inhibitors of human NAD-dependent 15-hydroxyprostaglandin dehydrogenase: mechanisms of inhibition and structure-activity

relationships. PLoS One. 2010 Nov 2;5(11):e13719.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA