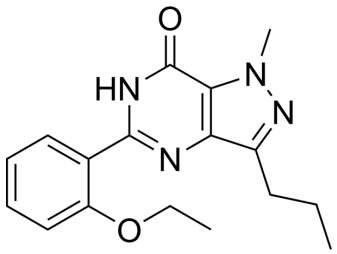
PDE5-IN-7

Cat. No.:	HY-W011336
CAS No.:	139756-21-1
Molecular Formula:	$C_{17}H_{20}N_4O_2$
Molecular Weight:	312.37
Target:	Phosphodiesterase (PDE)
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 : 33.33 mg/mL (106.70 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.2013 mL	16.0067 mL	32.0133 mL
5 mM	0.6403 mL	3.2013 mL	6.4027 mL
10 mM	0.3201 mL	1.6007 mL	3.2013 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PDE5-IN-7 (compound 8) is a selective phosphodiesterase 5 (PDE 5) inhibitor with an IC_{50} value of 5 nM, while an IC_{50} of 300 nM for PDE 1[1].

IC_{50} & Target

PDE5	PDE1
5 nM (IC_{50})	300 nM (IC_{50})

In Vitro

PDE5-IN-7 (compound 15, Desild) can be detected and isolated from Sildenafil (HY-15025) derivatives[2].

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

REFERENCES

[1]. Haning H, et al. Imidazo[5,1-f]triazin-4(3H)-ones, a new class of potent PDE 5 inhibitors. Bioorg Med Chem Lett. 2002 Mar 25;12(6):865-8.

[2]. Assemat G, et al. Isolation and identification of ten new sildenafil derivatives in an alleged herbal supplement for sexual enhancement. J Pharm Biomed Anal. 2020 Nov 30;191:113482.

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