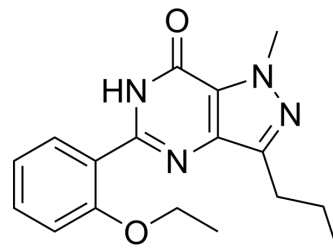


## PDE5-IN-7

Cat. No.:	HY-W011336		
CAS No.:	139756-21-1		
Molecular Formula:	C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>2</sub>		
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)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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 <sub>50</sub> value of 5 nM, while an IC <sub>50</sub> of 300 nM for PDE 1 <sup>[1]</sup> .		
IC <sub>50</sub> & Target	PDE5 5 nM (IC <sub>50</sub> )	PDE1 300 nM (IC <sub>50</sub> )	
In Vitro	PDE5-IN-7 (compound 15, Desild) can be detected and isolated from <a href="#">Sildenafil</a> (HY-15025) derivatives <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

### REFERENCES

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

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