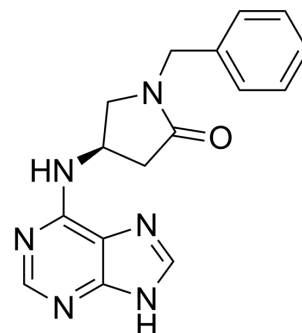


(R)-Benpyrine

Cat. No.:	HY-133807B		
Molecular Formula:	C ₁₆ H ₁₆ N ₆ O		
Molecular Weight:	308.34		
Target:	Others		
Pathway:	Others		
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 : 6.67 mg/mL (21.63 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	1 mg	5 mg	10 mg
	Mass			
Preparing Stock Solutions	1 mM	3.2432 mL	16.2159 mL	32.4317 mL
	5 mM	0.6486 mL	3.2432 mL	6.4863 mL
	10 mM	0.3243 mL	1.6216 mL	3.2432 mL

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

BIOLOGICAL ACTIVITY

Description

(R)-Benpyrine is the inactive isomer of Benpyrine (HY-133807), and can be used as an experimental control. Benpyrine is a highly specific and orally active TNF- α inhibitor with a K_D value of 82.1 μ M. Benpyrine tightly binds to TNF- α and blocks its interaction with TNFR1, with an IC_{50} value of 0.109 μ M. Benpyrine has the potential for TNF- α mediated inflammatory and autoimmune disease research^[1].

REFERENCES

[1]. Weiguang Sun, et al. Discovery of an Orally Active Small Molecule TNF- α Inhibitor. J Med Chem. 2020 Jul 15.

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

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