2-Cyanopyrimidine

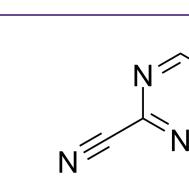
Cat. No.:	HY-Y0241				
CAS No.:	14080-23-0				
Molecular Formula:	$C_5H_3N_3$				
Molecular Weight:	105.1				
Target:	Cathepsin				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions Please refer to the so	1 mM	9.5147 mL	47.5737 mL	95.1475 mL	
	5 mM	1.9029 mL	9.5147 mL	19.0295 mL	
		10 mM	0.9515 mL	4.7574 mL	9.5147 mL
	Please refer to the so	10 mM		4.7574 mL	9.514

BIOLOGICAL ACTIV	
Description	2-Cyanopyrimidine is a potent and non-selective cysteine protease cathepsin K inhibitor with an IC ₅₀ of 170 nM. 2- Cyanopyrimidine is used for osteoporos ^[1] .
IC ₅₀ & Target	IC50: 170 nM (cysteine protease cathepsin K) ^[1]
In Vitro	2-Cyanopyrimidine is a 2-cyano-4-cyclohexylamino-pyrimidine derivative. Cathepsin K is a lysosomal cysteine protease ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES





[1]. Altmann E, et al. 2-Cyano-pyrimidines: a new chemotype for inhibitors of the cysteine protease cathepsin K. J Med Chem. 2007 Feb 22;50(4):591-4.

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

 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