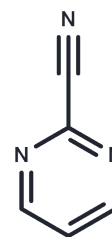


## 2-Cyanopyrimidine

## Chemical Properties

CAS No. :	14080-23-0
Formula:	C <sub>5</sub> H <sub>3</sub> N <sub>3</sub>
Molecular Weight:	105.1
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	2-Cyanopyrimidine (m-Hydroxyphenylpropionic acid) is inhibitor of cathepsin K(IC <sub>50</sub> : 170 nM)
Targets(IC <sub>50</sub> )	Cysteine Protease

## Solubility Information

Solubility	DMSO: 11 mg/mL (104.66 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.1903 mL	0.9515 mL	1.9029 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Rankovic Z , Cai J , Kerr J , et al. Optimisation of 2-cyano-pyrimidine inhibitors of cathepsin K: Improving selectivity over hERG[J]. Bioorganic and Medicinal Chemistry Letters, 2010, 20(21):6237-6241.

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