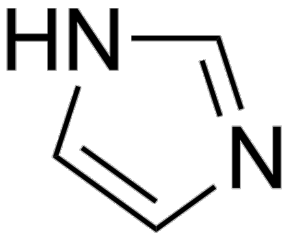
Imidazole

货号: AYB26697



产品信息

生物活性	Imidazole is a planar 5-membered ring. Imidazole is a highly polar compound. Imidazole has been used extensively as a corrosion inhibitor. Imidazole is incorporated into many important biological molecules. The most pervasive is the amino acid histidine, which has an imidazole side-chain. Imidazole is useful as a buffer in the pH range of 6.2-7.8 One of the applications of imidazole is in the purification of His-tagged proteins in immobilised metal affinity chromatography(IMAC). Imidazole is used to elute tagged proteins bound to Ni ions attached to the surface of beads in the chromatography column. An excess of imidazole is passed through the column, which displaces the His-tag from nickel co-ordination, freeing the His-tagged proteins. Imidazole has become an important part of many pharmaceuticals. Synthetic imidazoles are present in many fungicides and antifungal, antiprotozoal, and antihypertensive medications. Imidazole is part of the theophylline molecule, found in tea leaves and coffee beans, which stimulates the central nervous system. It is present in the anticancer medication mercaptopurine, which combats leukemia by interfering with DNA activities.
CAS	288-32-4
中文名称	咪唑
分子量	68.08
体外研究	
体内研究	
形式	Solid
运输条件	Room temperature in continental US; may vary elsewhere.
保存条件	

溶解性	In Vitro: **H_2O : ≥ 100 mg/mL** (**1468.86 mM**) **DMSO : 100 mg/mL** (**1468.86 mM;** Need ultrasonic) *"≥" means soluble, but saturation unknown. 配制储备液 **浓度溶剂体积质量 1 mg 5 mg 10 mg** 1 mM 14.6886 mL 73.4430 mL 146.8860 mL 5 mM 2.9377 mL 14.6886 mL 29.3772 mL 10 mM 1.4689 mL 7.3443 mL 14.6886 mL * 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，**请分装保存，避免反复冻融造成的产品失效**。 **储备液的保存方式和期限：**-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。 In Vivo: 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 **In Vitro** 方式配制澄清的储备液，再依次添加助溶剂： ——为保证实验结果的可靠性，**澄清的储备液可以根据储存条件，适当保存**；体内实验的工作液，**建议您现用现配，当天使用**； 以下溶剂前显示的百分比是指**该溶剂在您配制终溶液中的体积占比**；如在配制过程中出现沉淀、析出现象，可以通过**加热和/或超声的方式助溶** • 1. 请依序添加每种溶剂： PBS Solubility: 100 mg/mL (1468.86 mM); Clear solution; Need ultrasonic *以上所有助溶剂都可在 MCE 网站选购。
纯度	≥98.0%