

Catalase

货号: **B26689**

Catalase

产品信息

生物活性	Catalase is a key enzyme in the metabolism of H₂O₂ and reactive oxygen species (ROS) , and its expression and localization is markedly altered in tumors. Free oxygen radical scavenger.
CAS	9001-05-2
中文名称	过氧化氢酶
分子量	
体外研究	<p>Catalase, the enzyme that metabolizes H₂O₂ but also reacts with a multitude of other substrates. The active site of catalase contains an iron atom. Human catalase contains four identical subunits, each subunit containing four distinct domains and one prosthetic heme group. The four domains include: (1) a N-terminal arm which contains a distal histidine, an essential amino acid for the catalase reaction; (2) a β-barrel domain that contains eight β-barrels arranged in an antiparallel fashion with six α-helical insertions, conferring the hydrophobic core of the protein necessary for the tri-dimensional structure of the enzyme; (3) a connection domain which contains the tyrosine residue that binds the heme group; and finally (4) an α-helical domains, which is important for NADPH binding.</p> <p>The accuracy of these methods have not been independently confirmed. They are for reference only.</p>
体内研究	
形式	Solid
运输条件	Room temperature in continental US; may vary elsewhere.
保存条件	Please store the product under the recommended conditions in the Certificate of Analysis.

溶解性	<p>In Vitro:</p> <p>H₂O : 33.33 mg/mL (Need ultrasonic)</p> <p>DMSO : (insoluble or slightly soluble)</p> <p>In Vivo:</p> <p>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：</p> <p>——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</p> <ul style="list-style-type: none">1. <p>请依序添加每种溶剂： PBS</p> <p>Solubility: 100 mg/mL (Infinity mM); Clear solution; Need ultrasonic</p> <p>*以上所有助溶剂都可在 MCE 网站选购。</p>
纯度	