

## MIOX 抗原（重组蛋白）

中文名称： MIOX 抗原（重组蛋白）

英文名称： MIOX Antigen (Recombinant Protein)

别名： ALDRL6

储存： 冷冻（-20℃）

相关类别： 抗原

### 概述

Full length fusion protein

### 技术规格

<b>Full name:</b>	myo-inositol oxygenase
<b>Synonyms:</b>	ALDRL6
<b>Swissprot:</b>	Q9UGB7
<b>Gene Accession:</b>	BC012025
<b>Purity:</b>	>85%, as determined by Coomassie blue stained SDS-PAGE
<b>Expression system:</b>	Escherichia coli
<b>Tags:</b>	His tag C-Terminus, GST tag N-Terminus
<b>Background:</b>	Myo-inositol oxygenase (MIOX), also known as ALDRL6, is a renal-specific member of the Aldo-keto reductase family. It catalyzes the first committed step in the Myo-inositol metabolism pathway and is widely distributed in mammalian tissues. Human Myo-inositol oxygenase shares 91% and 96% sequence homology with mouse and pig Myo-inositol oxygenase homologs, respectively. Myo-inositol oxygenase is responsible for the oxidative cleavage of Myo-inositol (MI) and its epimer D-chiro inositol (DCI) to D-glucuronate. The dioxygen-dependent cleavage of the C1-C6 bond in Myo-inositol is accomplished through the utilization of the Fe(II)/

Fe(III) binuclear iron center of MIOX. Myo-inositol oxygenase has also been implicated in complications of diabetes, including diabetic nephropathy.