

Recombinant Human MIOX

Catalog No: #GP12388



Package Size: #GP12388-1 100ug

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Description

Product Name	Recombinant Human MIOX
Brief Description	Recombinant Protein
Immunogen Description	Full length fusion protein
Target Name	myo-inositol oxygenase
Other Names	ALDRL6
Accession No.	Swissprot:Q9UGB7Gene Accession:BC012025
Uniprot	Q9UGB7
GeneID	55586;
Storage	-20~-80°C, pH 7.6 PBS

Background

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.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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