

Recombinant Human MIOX 293 Cell Lysate

Cat. No. MIOX-4311HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for myo-inositol oxygenase (MIOX) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

MIOX myo-inositol oxygenase [Homo sapiens]

Official Symbol

MIOX

Synonyms

MIOX; myo-inositol oxygenase; aldehyde reductase (aldose reductase) like 6 , ALDRL6; inositol oxygenase; kidney specific protein 32; MI oxygenase; aldehyde reductase-like 6; kidney-specific protein 32; renal-specific oxidoreductase; aldehyde reductase (aldose reductase) like 6; ALDRL6; MGC90217;

Gene ID

55586

mRNA Refseq

NM_017584

Protein Refseq

NP_060054

MIM

606774

UniProt ID

Q9UGB7

Chromosome Location

22q13.3

Pathway

Ascorbate and aldarate metabolism, organism-specific biosystem; Ascorbate and aldarate metabolism, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem;

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Function

NADP binding; aldo-keto reductase (NADP) activity; ferric iron binding; inositol oxygenase activity; metal ion binding; oxidoreductase activity, acting on NADH or NADPH; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen;

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