

Myo-Inositol Oxygenase Human Recombinant

Item Number	rAP-1454
Synonyms	Myo-Inositol Oxygenase, Kidney-Specific Protein 32, Aldehyde Reductase (Aldose Reductase) Like 6, Renal-Specific Oxidoreductase, Aldehyde Reductase-Like 6, MI Oxygenase, EC 1.13.99.1, ALDRL6, Inositol Oxygenase, KSP32, RSOR, MIOX.
Description	MIOX Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (Met1-Trp285) containing 295 amino acids including a 10 aa His tag at N-terminus. The total calculated molecular mass is 34.2kDa.
Uniprot Accesion Number	Q9UGB7
Amino Acid Sequence	MKHHHHHHASMKVTVGPDPS LVYRPDVDPE VAKDKASFRN YTSGPLLDRV FTTYKLMHTH QTVDFVRSKH AQFGGFSYKK MTVMEAVDLL DGLVDESDPD VDFPNSFHAF QTAEGIRKAH PDKDWFHLVG LLHDLGKVLV LFGEPQWAVV GDTFFVGCRR QASVVFCDST FQDNPDLDQP RYSTELGMYQ PHCGLDRVLM SWGHDEYMYQ VMKFNKFSLP PEA FYMIRFH SFYPWHTGRD YQQLCSQQDL AMLPWWREFN KFDLYTKCPD LPDVKLRPY YQGLIDKYCP GILSW.
Source	Escherichia Coli.
Physical Appearance and Stability	Filtered White lyophilized (freeze-dried) powder. Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.
Formulation and Purity	MIOX was filtered (0.4 µm) and lyophilized in 20mM Tris buffer, 50mM NaCl and 5% (w/v) trehalose, pH 7.5. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to add 200µl of deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. MIOX is not sterile! Please filter the product by an appropriate sterile filter before use.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**