9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

32-6800: HAO1 Mouse

Application :	Functional Assay
Alternative Name :	(S)-2-hydroxy-acid oxidase; EC 1.1.3.15, Glycolate oxidase, GOX, GOX1MGC142227;GOXMGC142225, HAO1, HAO-1, HAOX1, hydroxyacid oxidase (glycolate oxidase) 1, hydroxyacid oxidase 1, Hydroxyacid Oxidase1, Hydroxyacid Oxidase-1.

Description

Source: Escherichia Coli.
Sterile Filtered clear solution.
Hydroxyacid Oxidase 1 (HAO1) is a part of the superfamily of the alpha hydroxy acid oxidases (HAO) enzymes. HAO1 catalyses the FMN mediated oxidation of glycolate to glyoxylate and glyoxylate to oxalate by reducing oxygen to hydrogen peroxide. HAO1 is expressed mainly in the liver and pancreas and is most active on twocarbon substrates such as glycolate. HAO1 isthe main cause of hyperoxaluria, a disorder in which large deposits of calcium oxalate form kidney stones.
HAO1 Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 393 amino acids (1-370) and having a molecular mass of 43.4 kDa.HAO1 is fused to a 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	HAO1 protein (1mg/ml) is containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMLPRLVC ISDYEQHVRS VLQKSVYDYY RSGANDQETL ADNIQAFSRW KLYPRMLRNV ADIDLSTSVL GQRVSMPICV GATAMQCMAH VDGELATVRA CQTMGTGMML SSWATSSIEE VAEAGPEALR WMQLYIYKDR EISRQIVKRA EKQGYKAIFV TVDTPYLGNR IDDVRNRFKL PPQLRMKNFE TNDLAFSPKG NFGDNSGLAE YVAQAIDPSL SWDDITWLRR LTSLPIVVKG ILRGDDAKEA VKHGVDGILV SNHGARQLDG VPATIDVLPE IVEAVEGKVE VFLDGGVRKG TDVLKALALG AKAVFVGRPI IWGLAFQGEK GVQDVLEILK EEFRLAMALS GCQNVKVIDK TLVRKNPLAV SKI.

Application Note

Specific activity is > 1,000 pmol/min/ug, and defined as the amount of enzyme that oxidize glyoxylate at pH 8.0 at 25C.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.