

32-2425: HAO1 Recombinant Protein

Alternative Name : Hydroxyacid oxidase 1,HAOX1,Glycolate oxidase,GOX,HAO1,GOX1.

Description

Source : Escherichia Coli. HAO1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 406 amino acids (1-370 a.a.) and having a molecular mass of 45kDa.HAO1 is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Glycolate oxidase (HAO1) belongs to the superfamily of the alpha hydroxy acid oxidases (HAO) enzymes. HAO1 catalyzes the FMN mediated oxidation of glycolate to glyoxylate and glyoxylate to oxalate with reduction of oxygen to hydrogen peroxide. HAO1 is most abundantly expressed in the liver and pancreas and is most active on twocarbon substrates such as glycolate. Lately, HAO1 has been identified as a key contributor to hyperoxaluria, a disorder in which large deposits of calcium oxalate form kidney stones.

Product Info

Amount :	20 µg
Purification :	Greater than 95% as determined by SDS-PAGE.
Content :	HAO1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 0.5M NaCl.
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 :	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMLPR LICINDYEQH AKSVLPKSIY DYYRSGANDE ETLADNIAAF SRWKLYPRML RNVAETDLST SVLGQRVSMP ICVGATAMQR MAHVDGELAT VRACQSLGTG MMLSSWATSS IEEVAEAGPE ALRWLQLYIY KDREVTKKLV RQAEKMGYKA IFVTVDTPYL GNRLDDVRNR FKLPPQLRMK NFETSTLSFS PEENFGDDSG LAAYVAKAID PSISWEDIKW LRRLTSLPIV AKGILRGDDA REAVKHGLNG ILVSNHGARQ LDGVPATIDV LPEIVEAVEG KVEVFLDGGV RKGTDVLKAL ALGAKAVFVG RPIVWGLAFQ GEKGVQDVLE ILKEEFRLAM ALSGCQNVKV IDKTLVRKNP LAVSKI.