

**HAO1, 1-370aa, Human, His tag, E.coli**

**Cat.NO.: TP02398**

3th Edition

**Synonyms:**Hydroxyacid oxidase 1, GOX (glycolate oxidase), GOX1, HAOX1.

**Description:**HAO1, also known as glycolate oxidase, is a member of the superfamily of the alpha hydroxy acid oxidases(HAO) enzymes. It catalyzes the FMN mediated oxidation of glycolate to glyoxylate and glyoxylate to oxalate with reduction of oxygen to hydrogen peroxide. It is most highly expressed in liver and pancreas and is most active on twocarbon substrates such as glycolate.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.5M NaCl

**Molecular Weight:**45.0 kDa(406aa), confirmed by MALDI-TOF

**Sequences:**

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETL  
ADNIAAFSRWKLYPRMLRNVAETDLSTSVLGQRVSMPCVIGATAMQRMHVVDGELATVRACQSLGTGMMLSSWA  
TSSIEEVAEAGPEALRWLQLYIKDREVTKKLVQRQAEKMGYKAIFVTVDTPYLGNRLLDDVRNRFKLPPQLRMKNFET  
STLSFSPEENFGDDSGLAAYVAKAIDPSISWEDIKWLRLTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLD  
GVPATIDVLPEIVEAVEGKVEVFLDGGVVRKGTDLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLEILKEEFRLA  
MALSGCQNVKVIDKTLVRKNPLAVSKI

**Purity:**> 95% by HPLC

**Concentration:**1.0 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.