

## Product datasheet for PH316834

### HAO1 (NM\_017545) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | HAO1 MS Standard C13 and N15-labeled recombinant protein (NP_060015)   |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC216834   |
| Predicted MW:                         | 40.9 kDa   |
| Protein Sequence:                     | >RC216834 protein sequence<br>Red=Cloning site Green=Tags(s)   |
|                                       | MLPRLICINDYEQHAKSVLPKSIYDYRSGANDEETLADNIAAFSRWKL YPRMLRNAETDLSTSVLGQR<br>VSMPICVGATAMQRMHV DVGELATVRACQSLGTGMMLSSWATSSIEEVAEAGPEALRWLQLYIYKDREVT<br>KKLVRQAEKMGYKAIFVTVDTPYLG NRLLDVRNRFKLPPLRMKNFETSTLSFSPEENFGDSSGLAAYVA<br>KAIDPSISWEDIKWLRRLTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDGVPATIDVLP EIVE<br>AVEGKVEVFLDGGVRKGTDLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLEILKEEFRLAMALSGCQ<br>NVKVIDKTLVRKNPLAVSKI |
|                                       | TRTRPLEQKLI SEEDLAANDILDYKDDDDKV   |
| Tag:                                  | C-Myc/DDK  |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method:                      | Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine   |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:                              | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:                            | Stable for 3 months from receipt of products under proper storage and handling conditions.   |
| RefSeq:                               | <u>NP_060015</u>   |
| RefSeq Size:                          | 1746   |
| RefSeq ORF:                           | 1110   |
| Synonyms:                             | GOX; GOX1; HAOX1   |
| Locus ID:                             | 54363  |



[View online »](#)

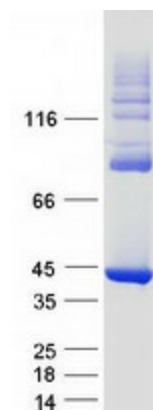
UniProt ID: [Q9UJM8](#), [A8K058](#)

Cytogenetics: 20p12.3

**Summary:** This gene is one of three related genes that have 2-hydroxyacid oxidase activity yet differ in encoded protein amino acid sequence, tissue expression and substrate preference. Subcellular location of the encoded protein is the peroxisome. Specifically, this gene is expressed primarily in liver and pancreas and the encoded protein is most active on glycolate, a two-carbon substrate. The protein is also active on 2-hydroxy fatty acids. The transcript detected at high levels in pancreas may represent an alternatively spliced form or the use of a multiple near-consensus upstream polyadenylation site. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Glyoxylate and dicarboxylate metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified HAO1 protein (Cat# [TP316834]). The protein was produced from HEK293T cells transfected with HAO1 cDNA clone (Cat# [RC216834]) using MegaTran 2.0 (Cat# [TT210002]).