

Recombinant Human Hydroxyacylglutathione Hydrolase, His-tagged

Cat. No. HAGH-932H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HAGH protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 31.4 kDa (284aa).
Species	Human
Source	E.coli
Description	HAGH is a member of the glyoxalase family and a thiolesterase which hydrolyses S-lactoyl-glutathione to reduced glutathione and D-lactate. This protein is a detoxifying enzyme of glycolysis byproduct methylglyoxal and a target of p63 and p73 and serves as a pro-survival factor of the p53 family. It exists only as a monomer and binds two zinc ions per subunit.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.5) containing 10% Glycerol.
Purity	> 95% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MGSHMKVEVL PALTDNYMYL VIDDETKEAA IVDP VQPQKV VDAARKHGK LTTVLTHHH WDHAGGNEKLVKLESGLKVY GGDD RIG ALT HKITHLSTLQ VGSLNVKCLA TPCHTSGHIC YFVSKPGGSE PPAVFTGDTL FVAG CGKFYE GTADEMCKALLEVLGRLPPD TRVYCGHEYT INNLKFARHV EPGN AAIREK LAWAKEKYSI GEPTVPSTLA EEFTYNPFMR VREKTVQQHA GETDP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VTTMR AVRREKDQFK MPRD.

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.

Pathways

Pyruvate metabolism

GENE INFORMATION

Gene Name

HAGH [hydroxyacylglutathione hydrolase \[Homo sapiens \]](#)

Synonyms

hydroxyacylglutathione hydrolase; GLO2; GLX2; GLXII; HAGH1; HAGH;
hydroxyacylglutathione hydrolase, mitochondrial; glx II; glyoxalase II;
hydroxyacylglutathione hydroxylase; hydroxyacyl glutathione hydrolase; EC 3.1.2.6;
Glyoxalase II; Glx II

Gene ID

[3029](#)

mRNA Refseq

[NM_001040427](#)

Protein Refseq

[NP_001035517](#)

MIM

[138760](#)

UniProt ID


[Q16775](#)

**Chromosome
Location**


16p13.3

Function

hydrolase activity; hydroxyacylglutathione hydrolase activity; metal ion binding; zinc ion binding

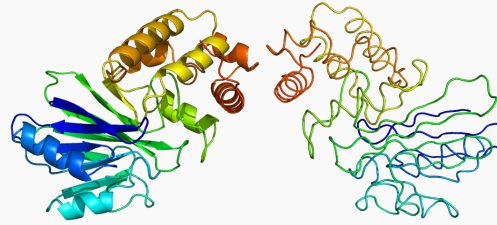
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PDB rendering based
on 1qh3.



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