

HAGH, human recombinant

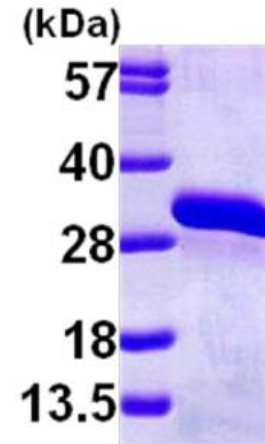
CATALOG #:	7832-50	50 µg
ALTERNATE NAMES:	Hydroxyacylglutathione hydrolase, GLO, GLX2, Glyoxalase II, HAGH1	
SOURCE:	E. Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	31.4 kDa (284 aa, 1-260 aa + His Tag)	
FORM:	Liquid	
FORMULATION:	0.5 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol	

STORAGE CONDITIONS: 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.

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. Recombinant human HAGH protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AMINO ACID SEQUENCE: MGSSHHHHHH SSGLVPRGSH MGSHMKVEVL PALTDNYMYL VIDDETKEAA IVDPVQPQKV VDAARKHGK LTTVLTHHH WDHAGGNEKL VKLESLKVVY GGDDRIGALT HKITHLSTLQ VGSLNVKCLA TPCHTSGHIC YFVSKPGGSE PPAVFTGDTL FVAGCGKFYE GTADEMCKAL LEVLGRLPPD TRVYCGHEYT INNLKFARHV EPGNAAIREK LAWAKEKYSI GEPTVPSTLA EEFTYNPFMR VREKTVQQHA GETDPVTTMR AVRREKDQFK MPRD

BIOLOGICAL ACTIVITY: Specific activity is > 1.8 unit/ml, in which one unit will hydrolyze 1.0 µmole of S-lactoylglutathione per minute at pH 7.5 at 25°C.



15% SDS-PAGE (3µg)

Human Recombinant HAGH

RELATED PRODUCTS:

- Proteins and Enzymes

FOR RESEARCH USE ONLY! Not to be used in humans.

