

## HAGH Human

**Description:**HAGH produced in E.Coli is a single, non-glycosylated polypeptide chain containing 284 amino acids (1-260a.a.) and having a molecular mass of 31.4kDa.HAGH is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:ENPS-041

For research use only.

**Synonyms:**GLX2, Glyoxalase II, GLO2, Hydroxyacyl Glutathione Hydrolase, HAGH1, GLXII, Hydroxyacylglutathione Hydrolase, hydroxyacylglutathione hydroxylase.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered clear solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSHMKVEVL PALTDNYMYL  
VIDDETKEAA IVDPVQPQKV VDAARKHGVK LTTVLTTTHH WHAGGNEKL VKLESGLKVY  
GGDDRIGALT HKITHLSTLQ VGSLNVKCLA TPCHTSGHIC YFVSKPGGSE PPAVFTGDTL  
FVAGCGKFYE GTADEMCKAL LEVLGRLPPD TRVYCGHEYT INNLFARHV EPGNAAIRES  
LAWAKEKYSI GE

**Purity:**Greater than 95% as determined by SDS-PAGE.

### Formulation:

The HAGH protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl Buffer (pH 8.5) and 10% Glycerol.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

HAGH is a part of the glyoxalase family and a thiolesterase which hydrolyses S-lactoyl-glutathione to reduced glutathione and D-lactate. HAGH 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. HAGH appears only as a monomer and binds two zinc ions per subunit.

### Storage:

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).Please avoid freeze thaw cycles.

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