
Product Data Sheet

Product Name: HAGH Human
 Cat. No.: GP21772
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GLX2; Glyoxalase II; GLO2; Hydroxyacyl Glutathione Hydrolase; HAGH1; GLXII; Hydroxyacylglutathione Hydrolase; hydroxyacylglutathione hydroxylase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMKVEVL PALTDNYMYL VIDDETKEAA IVDPVQPQKV VDAARKHGK LTTVLTTHHH WDHAGGNEKL VKLESGLKVY GGDDRIGALT HKITHLSTLQ VGSLNVKCLA TPCHTSGHIC YFVSKPGGSE PPAVFTGDTL FVAGCGKFYE GTADEMCKAL LEVLGRLPPD TRVYCGHEYT INNLKFARHV EPGNAAIREK LAWAKEKYSI GEPTVPSTLA EEFTYNPFMR VREKTVQQA GETDPVTTMR AVRREKDQFK MPRD.		
Formulation	The HAGH protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl Buffer (pH 8.5) and 10% Glycerol.		

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.

Stability

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.

Background

HAGH produced in E.Coli is a single, non-glycosylated polypeptide chain containing 284

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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