

SGTA Protein, Human (His)

Cat. No.:	HY-P71033
Synonyms:	Small Glutamine-Rich Tetratricopeptide Repeat-Containing Protein Alpha; Alpha-SGT; Vpu-Binding Protein; UBP; SGTA; SGT; SGT1
Species:	Human
Source:	E. coli
Accession:	O43765 (M1-E313)
Gene ID:	6449
Molecular Weight:	Approximately 35.0 kDa

PROPERTIES

AA Sequence	<pre> MDNKKRLAYA I I Q F L H D Q L R H G G L S S D A Q E S L E V A I Q C L E T A F G V T V E D S D L A L P Q T L P E I F E A A A T G K E M P Q D L R S P A R T P P S E E D S A E A E R L K T E G N E Q M K V E N F E A A V H F Y G K A I E L N P A N A V Y F C N R A A A Y S K L G N Y A G A V Q D C E R A I C I D P A Y S K A Y G R M G L A L S S L N K H V E A V A Y Y K K A L E L D P D N E T Y K S N L K I A E L K L R E A P S P T G G V G S F D I A G L L N N P G F M S M A S N L M N N P Q I Q Q L M S G M I S G G N N P L G T P G T S P S Q N D L A S L I Q A G Q Q F A Q Q M Q Q N P E L I E Q L R S Q I R S R T P S A S N D D Q Q E </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	AGA (Aspartylglucosaminidase) is a crucial enzyme that cleaves the GlcNAc-Asn bond, facilitating the release of oligosaccharides from the peptide backbone of asparagine-linked glycoproteins. This enzymatic activity is essential for the processing and maturation of glycoproteins, playing a key role in the intricate mechanisms of post-translational modification and protein quality control. By specifically targeting the GlcNAc-Asn linkage, AGA contributes to the generation
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of functionally mature glycoproteins, influencing various cellular processes. The precision of this cleavage highlights AGA's significance in maintaining the structural integrity and functionality of glycoproteins within the cellular milieu.

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

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