

FUCA1 Protein, Human (HEK293, His)

Cat. No.:	HY-P75782
Synonyms:	Tissue alpha-L-fucosidase; Alpha-L-fucosidase 1; FUCA1
Species:	Human
Source:	HEK293
Accession:	P04066 (Q32-K466)
Gene ID:	2517
Molecular Weight:	Approximately 57 kDa

PROPERTIES

AA Sequence	<p> Q P P R R Y T P D W P S L D S R P L P A W F D E A K F G V F I H W G V F S V P A W G S E W F W W H W Q G E G R P Q Y Q R F M R D N Y P P G F S Y A D F G P Q F T A R F F H P E E W A D L F Q A A G A K Y V V L T T K H H E G F T N W P S P V S W N W N S K D V G P H R D L V G E L G T A L R K R N I R Y G L Y H S L L E W F H P L Y L L D K K N G F K T Q H F V S A K T M P E L Y D L V N S Y K P D L I W S D G E W E C P D T Y W N S T N F L S W L Y N D S P V K D E V V V N D R W G Q N C S C H H G G Y Y N C E D K F K P Q S L P D H K W E M C T S I D K F S W G Y R R D M A L S D V T E E S E I I S E L V Q T V S L G G N Y L L N I G P T K D G L I V P I F Q E R L L A V G K W L S I N G E A I Y A S K P W R V Q W E K N T T S V W Y T S K G S A V Y A I F L H W P E N G V L N L E S P I T T S T T K I T M L G I Q G D L K W S T D P D K G L F I S L P Q L P P S A V P A E F A W T I K L T G V K </p>
Biological Activity	Measured by its ability to cleave a fluorogenic substrate 4-Methylumbelliferyl-alpha-L-fucopyranoside. The specific activity is 783.02 pmol/min/ μ g, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/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

FUCA1 protein serves a pivotal role as alpha-L-fucosidase, responsible for the hydrolysis of the alpha-1,6-linked fucose residue connected to the reducing-end N-acetylglucosamine within the carbohydrate moieties of glycoproteins.

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

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