

CHIT1/Chitotriosidase-1 Protein, Human (HEK293, His)

Cat. No.:	HY-P76254
Synonyms:	Chitotriosidase-1; Chitinase-1; CHIT1
Species:	Human
Source:	HEK293
Accession:	Q13231 (A22-N466)
Gene ID:	1118
Molecular Weight:	Approximately 48 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 12.5 mM Tris, 75 mM NaCl, 50% glycerol, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The CHIT1/Chitotriosidase-1 protein serves as an enzyme capable of degrading chitin, chitotriose, and chitobiose, indicating its potential role in the defense against nematodes and other pathogens. However, it's noteworthy that isoform 3 of CHIT1 lacks enzymatic activity. The ability of CHIT1 to break down chitin-containing substances suggests its involvement in immune defense mechanisms, particularly against certain types of pathogens. The existence of isoform 3, which lacks enzymatic activity, underscores the complexity of CHIT1 protein variants and hints at potential diverse functions or regulatory roles within biological processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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