

Chitinase-like protein 3/YM1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7845
Synonyms:	rMuChitinase-like protein 3/YM1, His; Chitinase-like protein 3; Chil3
Species:	Mouse
Source:	HEK293
Accession:	O35744 (Y22-Y398)
Gene ID:	12655
Molecular Weight:	41-45 kDa

PROPERTIES

AA Sequence	<pre> Y Q L M C Y Y T S W A K D R P I E G S F K P G N I D P C L C T H L I Y A F A G M Q N N E I T Y T H E Q D L R D Y E A L N G L K D K N T E L K T L L A I G G W K F G P A P F S A M V S T P Q N R Q I F I Q S V I R F L R Q Y N F D G L N L D W Q Y P G S R G S P P K D K H L F S V L V K E M R K A F E E E S V E K D I P R L L L T S T G A G I I D V I K S G Y K I P E L S Q S L D Y I Q V M T Y D L H D P K D G Y T G E N S P L Y K S P Y D I G K S A D L N V D S I I S Y W K D H G A A S E K L I V G F P A Y G H T F I L S D P S K T G I G A P T I S T G P P G K Y T D E S G L L A Y Y E V C T F L N E G A T E V W D A P Q E V P Y A Y Q G N E W V G Y D N V R S F K L K A Q W L K D N N L G G A V V W P L D M D D F S G S F C H Q R H F P L T S T L K G D L N I H S A S C K G P Y </pre>
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of FaDu human squamous cell carcinoma cells. The ED ₅₀ for this effect is 0.9299 µg/mL, corresponding to a specific activity is 1075.3844 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
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

The Chitinase-like protein 3/YM1 protein functions as a lectin with a notable affinity for saccharides containing a free amino group, including glucosamine or galactosamine. Its binding affinity is considerably stronger for oligomeric saccharides compared to mono- or disaccharides. Additionally, Chitinase-like protein 3/YM1 binds to chitin and heparin. While it exhibits weak hexosaminidase activity, it does not possess chitinase activity. Beyond its enzymatic functions, the protein displays chemotactic activity for T-lymphocytes, bone marrow cells, and eosinophils, suggesting potential involvement in inflammation and allergy processes.

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

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