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32-7405: Recombinant Human Chitotriosidase-1/CHIT1 (C-6His)

Gene : CHIT1
Gene ID : 1118
Uniprot ID : Q13231

Description

Source: Human Cells.
MW :50.43kD.
Recombinant Human Chitotriosidase-1 is produced by our Mammalian expression system and the target gene encoding Ala22-Asn466 is expressed with a 6His tag at the C-terminus. Chitotriosidase-1 (CHIT1) is a glycoprotein that belongs to the Glycosyl Hydrolase 18 family and Chitinase class II subfamily. It is secreted by cultured macrophages and serves to degrade chitin, chitotriose and chitobiose. CHIT1 may participate in the defense against nematodes and other pathogens. It is highly expressed in the plasma of patients with Gaucher's disease type I, which can be used as diagnostic aid and to evaluate the success of treatment that brings levels back to normal. The amino acid sequence of human CHIT1 is 99%, 76%, 75% and 55% identical to that of chimpanzee, rat, mouse and fruit fly, respectively.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : AKLVCYFTNWAQYRQGEARFLPKDLDPSLCTHLIYAFAGMTNHQLSTTEWNDETLYQEFNGLKKMNPKLKTLL
AIGGWNFSTQKFTDMVATANNRQTFVNSAIRFLRKYSFDGLDLDWEYPGSQGSPAVDKERFTTLVQDLANAF
QQEAQTSGKERLLLSAAVPAGQTYVDAGYEVDKIAQNLDFVNLMAYDFHGSWEKVTGHNSPLYKRQEESGAA
ASLNVDAAVQQWLQKGTPASKLILGMPTYGRSFTLASSSDTRVGAPATGSGTPGPFTKEGGMLAYYEVCSWK
GATKQRIQDQKVPYIFRDNQWVGFDDVESFKTKVSYLKQKGLGGAMVWALDLDDFAGFSCNQGRYPLIQTLR
QELSLPYLPSGTPELEVPKPGQPSEPEHGPSPGQDTFCQGKADGLYPNPRERSSFYSCAGGRLFQQSCPTGLVF
SNSCKCCTWNVDHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/Ã□Âµg (1 IEU/Ã□Âµg) as determined by LAL test.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.