

Recombinant Human glucosidase, beta, acid 3, His-tagged

Cat. No. GBA3-626H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GBA3, 1-469aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-469 a.a.
Description	<p>GBA3 is an enzyme that can hydrolyze several types of glycosides. Some individuals, as represented by the reference genome allele, contain a single nucleotide polymorphism that results in a premature stop codon in the coding region, and therefore this allele is pseudogenic due to the failure to produce a functional full-length protein. Recombinant human GBA3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.</p>
Form	Liquid. In 1X Phosphate Buffered Saline (pH7.4) containing 20% glycerol, 1mM DTT
Molecular Mass	56.1 kDa (492aa)
AA Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSMAFPAGF GWAAATAAYQ VEGGWDADGK GPCVWDTFTTH QGGERVFKNQ TGDVACGSYT LWEEDLKCIK QLGLTHYRFS LSWSRLLPDG TTGFINQKGI DYYNKIDDL LKNGVTPIVT LYHFDLPQTL EDQGGWLSEA IIESFDKYAQ FCFSTFGDRV KQWITINEAN VLSVMSYDLG MFPPGIPHFG TGGYQAAHNL IKAHARSWHS YDSLFRKKQK GMVSLSLFAV</p>

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WLEPADPNSV SDQEAAKRAI TFHLDLFAKP IFIDGDYPEV VKSQIASMSQ
 KQGYPSSRLP EFTEEEKKMI KGTADFFAVQ YYTTRLIKYQ ENKKGELGIL
 QDAEIEFFPD PSWKNVDWIY VVPWGVCKLL KYIKDTYNNP VIYITENGF
 QSDPAPLDDT QRWEYFRQTF QELFKAIQLD KVNQLQVYCAW SLLDNFEWNQ
 GYSSRFGLFH VDFEDPARPR VPYTSAKEYA KIIRNNGLEA HL

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [GBA3 glucosidase, beta, acid 3 \(cytosolic\) \[Homo sapiens \]](#)

Official Symbol GBA3

Synonyms GBA3; glucosidase, beta, acid 3 (cytosolic); cytosolic beta-glucosidase; GLUC; klotho related protein; KLrP; klotho-related protein; cytosolic beta-glucosidase-like protein 1; CBGL1; MGC104276; MGC126878;

Gene ID [57733](#)

mRNA Refseq [NM_001128432](#)

Protein Refseq [NP_001121904](#)

MIM [606619](#)

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UniProt ID	Q9H227
Chromosome Location	4p15.31
Pathway	Cyanoamino acid metabolism, organism-specific biosystem; Cyanoamino acid metabolism, conserved biosystem; Glycosphingolipid metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem;
Function	beta-galactosidase activity; beta-glucosidase activity; cation binding; glycosylceramidase activity;

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