

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	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.
Form	Liquid. In 1X Phosphate Buffered Saline (pH7.4) containing 20% glycerol, 1mM DTT
Molecular Mass	56.1 kDa (492aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAFPAGF GWAAATAAYQ VEGGWDADGK GPCVWDTFTH QGGERVFKNQ TGDVACGSYT LWEEDLKCIK QLGLTHYRFS LSWSRLLPDG TTGFINKQGI DYYNKIDDL LKNGVTPIVT LYHFDLPQTL EDQGGWLSEA IIESFDKYAQ FCFSTFGDRV KQWITINEAN VLSVMSYDLG MFPPGIPHFG TGGYQAAHNL IKAHARSWHS YDSLFRKKQK GMVSLSLFAV

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WLEPADPNSV SDQEAAKRAI TFHLDLFAKP IFIDGDYPEV VKSQIASMSQ
 KQGYPSSRLP EFTEEEKKMI KGTADFFAVQ YYTTRLIKYQ ENKKGELGIL
 QDAEIEFFPD PSWKNVDWIY VVPWGVCKLL KYIKDTYNNP VIYITENGFP
 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;