Recombinant human Cytosolic beta-Glucosidase/GBA3 protein

Catalog Number: ATGP2849

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-469aa

UniProt No.
Q9H227

NCBI Accession No.
NP_066024

Alternative Names
Cytosolic beta-glucosidase, CBG, CBGL1, GLuC, KLRP

PRODUCT SPECIFICATION

Molecular Weight
56.1 kDa (492aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

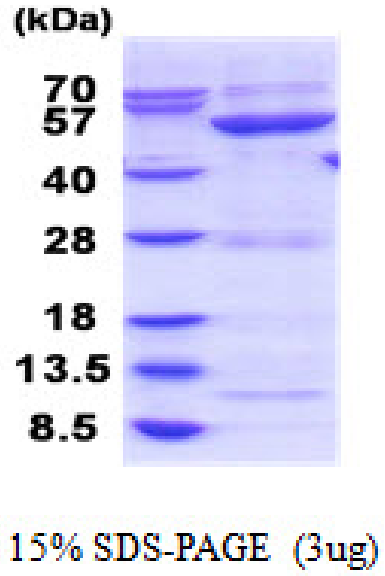
MGSSHHHHHH SSGLVPRGSH MGSMAFPAGF GWAAATAAYQ VEGGWDADGK GPCVWDTFTH QGGERVFKNQ TGDVACGSYT LWEEDLKCIK QLGLTHYRFS LSWSRLLPDG TTGFINQKGI DYYNKIIDDL LKNGVTPIVT LYHFDLPQTL EDQGGWLSEA IIESFDKYAQ FCFSTFGDRV KQWITINEAN VLSVMSYDLG MFPPGIPHFG TGGYQAAHNL IKAHARSWHS YDSLFRKKQK GMVSLSLFAV WLEPADPNSV SDQEAAKRAI TFHLDLFAKP IFIDGDYPEV VKSQIASMSQ KQGYPSSRLP EFTEEEKKMI KGTADFFAVQ YYTTRLIKYQ ENKKGELGIL QDAEIEFFPD PSWKNVDWIY VVPWGVCKLL KYIKDTYNNP VIYITENGFP QSDPAPLDDT QRWEYFRQTF QELFKAIQLD KVNLQVYCAW SLLDNFEWNQ GYSSRFGLFH VDFEDPARPR VPYTSAKEYA KIIRNNGLEA HL

General References

Berrin J.-G., et al, (2002) Eur. J. Biochem. 269:249-258.
Nemeth K., et al, (2003) Eur. J. Nutr. 42:29-42.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.