
Product Data Sheet

Product Name: GBA3 Human
 Cat. No.: GP21664
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cytosolic beta-glucosidase; Cytosolic beta-glucosidase-like protein 1; GBA3; CBG; CBGL1; Glucosidase Beta Acid 3; GH1; Glycoside Hydrolase Family 1; GLUC; KLRP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAFPAGF GWAAATAAYQ VEGGWDADGK GPCVWDTFTH QGGERVFNQ TGDVACGSYT LWEEDLKCIC QLGLTHYRFS LWSRLLPDG TTGFINKGI DYYNKIIDL LKNGVTPIVT LYHFDLPQTL EDQGGWLSEA IIESFDKYAQ FCFSTFGDRV KQWITINEAN VLSVMSYDLG MFPPGIPHFG TGGYQAAHNL IKAHARSWHS YDSLFRKKQK GMVLSLFAV WLEPADPNSV SDQEAARKAI TFHLDLFAKP IFIDGDYPEV VKSQIASMSQ KQGYPSSRLP EFTEEEKKMI KGTADFFAVQ YTTRLIKYQ ENKKGELGIL QDAEIEFFPD PSWKNVDWIY VVPWGVCKLL KYIKDTYNNP VIYITENGFP QSDPAPLDDT QRWEYFRQTF QELFKAIQLD KVNQLQVYCAW SLLDNFEWNQ GYSSRFGFLFH VDFEDPARPR VPYTSKEYA KIIRNNGLEA HL.		
Formulation	GBA3 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH7.4), 20% glycerol and 1mM DTT.		

Introduction

Glucosidase Beta Acid 3, also known as GBA3, hydrolyzes various types of glycosides. GBA3 takes part in a nonlysosomal catabolic pathway of glycosylceramide. GBA3 is a protein coding gene which acts as beta-glycosylceramidase.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

GBA3 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 492 amino acids (1-469 a.a.) and having a molecular mass of 56.1kDa. GBA3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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