

32-6756: GBA Human

Alternative Name : Glucosidase, Beta, Acid, D-Glucosyl-N-Acylsphingosine Glucohydrolase, Beta-Glucocerebrosidase, Acid Beta-Glucosidase, Glucosylceramidase, Alglucerase, EC 3.2.1.45, Beta-GC, GLUC, Glucosidase, Beta; Acid (Includes Glucosylceramidase), Glucosylceramidase-Like Protein, Lysosomal Glucocerebrosidase, GBA1, GCB, GC, Glucosylceramidase.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

Beta-Glucocerebrosidase, also known as GBA is a member of the glycosyl hydrolase 30 family. GBA is a lysosomal enzyme which requires a signal peptide for transport across the membrane of the rough endoplasmic reticulum as well as glycosylation for transport into lysosomes. Furthermore, Gaucher disease is caused by a deficiency in the activity of the enzyme glucocerebrosidase.

GBA produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 503 amino acids (40-536a.a.) and having a molecular mass of 56.4kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). GBA is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 80% as determined by SDS-PAGE.

Content : GBA protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH7.4) and 10% glycerol.

Storage condition : 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.

Amino Acid : ARPCIPKSFG YSSVVCVCNA TYCDSFDPPT FPALGTFSRY ESTRSGRRME LSMGPIQANH
TGTGLLLTLQ PEQKFQKVKG FGGAMTDAAL LNILALSPPA QNLLKSYFS EEGIGYNIIR
VPMASCDFSI RTYTYADTPD DFQLHNFSLP EEDTKLKIPL IHRALQLAQR PVSLLASPWT
SPTWLKTNGA VNGKGS LKGQ PGDIYHQTWA RYFVKFLDAY AEHKLQFWAV TAENEPSAGL
LSGYPFQCLG FTPEHQRDFI ARDLGPTLAN STHHNVRLLM LDDQRLLLPH WAKVVLTDPE
AAKYVHGIIV HWYLDLFLAPA KATLGETHRL FPNTMLFASE ACVGSKFWEQ SVRLGSDWRG
MQYSHSIITN LLYHVVGWTD WNLALNPEGG PNWVRNFVDS PIIVDITKDT FYKQPMFYHL
GHFSKFIPEG SQRVGLVASQ KNDLDAVALM HPDGSVVVVV LNRSSKDVPL TIKDPAVGFL
ETISPGYSIH TYLWRRQHHL HHH.