
Product Data Sheet

Product Name: GBA Human
 Cat. No.: GP21663
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	ARPCIPKSFG YSSVVCVCNA TYCDSFDPPT FPALGTFSRY ESTRSGRRMELSMGPIQANH TGTGLLLTLQ PEQKFQKVKG FGGAMTDAAA LNILALSPA QNLLLKSYFS EEGIGYNIIRVPMASCDFSI RTYTYADTPD DFQLHNFSLP EEDTKLKIPL IHRALQLAQR PVLLASPWTSPTWLKTNGA VNGKGS�KGQ PGDIYHQTWA RYFVKFLDAY AEHKLQFWAVTAENEPSAGL LSGYPFQCLG FTPEHQRFDI ARDLGPTLAN STHHNVRLLM LDDQRLLLPH WAKVVLTDPEAAKYVHGIAV HWYLDLFLAPA KATLGETHRL FPNTMLFASE ACVGSKFWEQ SVRLGSWDRGMQYSHSIITN LLYHVVGWTD WNLALNPEGG PNWVRNFVDS PIIVDITKDTFYKQPMFYHL GHFSKFIPEG SQRVGLVASQ KNDLDAVALM HPDGSVVVV LNRSSKDVPL TIKDPAVGLETISPGYSIH TYLWRRQH HH HHH.		
Formulation	GBA protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH7.4) and 10% glycerol.		

Introduction

Beta-Glucocerebrosidase, also known as GBA is a member of the glycosylhydrolase 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.

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

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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.

Background

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.

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