

Recombinant human Glucosylceramidase/GBA protein

Catalog Number: ATGP3145

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

40-536aa

UniProt No.

P04062

NCBI Accession No.

NP_000148

Alternative Names

Glucosylceramidase isoform 1, GBA1, GCB, GLUC

PRODUCT SPECIFICATION

Molecular Weight

56.4 kDa (503aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 80% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

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

GBA, also known as glucosylceramidase isoform 1, is a lysosomal enzyme that presumably requires a signal peptide for transport across the membrane of the rough endoplasmic reticulum and glycosylation for transport into lysosomes. Gaucher disease is due to a deficiency in the activity of the enzyme glucocerebrosidase. Recombinant human GBA, fused to His-tag at C-terminus, was expressed in insect cell and purified by using

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conventional chromatography techniques.

Amino acid Sequence

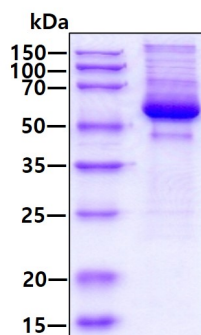
ARPCIPKSFG YSSVVCVCNA TYCDSFDPPT FPALGTFSRY ESTRSGRRME LSMGPIQANH TGTGLLLTQ PEQKFQKVKG
FGGAMTDAAA LNILALSPPA QNLLLSYFS EEGIGYNIIR VPMASCDISI RTYTYADTPD DFQLHNFSLP EEDTKLKIPL
IHRALQLAQR PVSLLASPWT SPTWLKTNGA VNGKGSLLGQ PGDIYHQTWA RYFVKFLDAY AEHKLQFWAV TAENEPSAGL
LSGYPFQCLG FTPEHQRFI ARDLGPTLAN STHHNVRLM LDDQRLLPH WAKVVLTDPE AAKYVHGIAV HWYLDLAPA
KATLGETHRL FPNTMLFASE ACVGSKFWEQ SVRLGSWDRG MQYSHSIITN LLYHVVGWTD WNLALNPEGG PNWVRNFVDS
PIVDITKDT FYKQPMFYHL GHFSKFIPEG SQRVGLVASQ KNDLDAVALM HPDGSASVVV LNRSSKDVPL TIKDPAVGFL
ETISPGYSIH TYLWRRQ<HHH HHH>

General References

Sorge JA., et al. (1987) Am J Hum Genet. 41:1016-1024.
Salvioli R., et al. (2000) FEBS Lett. 472:17-21.

DATA

SDS-PAGE



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