

GBA, 40-536aa, Human, His tag, Insect cell

Cat.NO.: TP02204

3th Edition

Synonyms:GBA1, GCB, GLUC

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 conventional chromatography techniques.

Form:Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol.

Molecular Weight:56.4kDa (503aa) 50-70kDa (SDS-PAGE under reducing conditions)

Sequences:

ARPCIPKSFYSSVVCNATYCDSDPPTFPALGTFSTRYESTRSGRRMELSMGPIQANHTGTGLLLTLQPEQKFQ
KVKGFGGAMTDAAALNILALSPPAQNLLLSYFSEEGIGYNIIRVPMASCDFSIRTYTYADTPDDFQLHNFSLPEEDT
KLKIPLIHRALQLAQRVSLASPWTSPWLKTNGAVNGKGS�KGQPGDIYHQTWARYFVKFLDAYAEHKLQFWAV
TAENEPSAGLLSGYPFQCLGFTPEHQDRDFIARDLGPTLANSTHHNVRLMLDDQRLLLPHWAKVVLTDPAAKYVH
GIAVHWYLDLFLAPAKATLGETHRLFPNTMLFASEACVGSKFWEQSVRLGSDRGMQYSHSITNLLYHVVGWTDW
NLALNPEGPNWVRNFVDSPIIVDITKDTFYKQPMFYHLGHFSKFIPEGSQRVGLVASQKNDLDAVALMHPDGSV
VVVLRSSKDVPLTIKDPVAVGFLETISPGYSIHTYLWRRQHSHHHHH

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.