

GUSB, 23-651aa, Human, His-tag, Baculovirus (Bioactivity Validated)

Cat.NO.: TP02378

3th Edition

Synonyms: Beta-glucuronidase isoform 1, GUSB, BG, MPS7

Description: GUSB, also known as beta-glucuronidase isoform 1, is a lysosomal hydrolase involved in the stepwise degradation of glucuronic acid-containing glycosaminoglycans. It includes heparin sulfate, chondroitin sulfate and hyaluronan. Mutations in the GUSB are linked to mucopolysaccharidosis type VII. GUSB plays an important role in the degradation of dermatan and keratin sulfates. Recombinant human GUSB, 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 (pH 7.4) containing 10% glycerol.

Molecular Weight: 73.4kDa (635aa), 70-100kDa (SDS-PAGE under reducing conditions.)

Sequences:

LQGGMLYPQESPSRECKELDGLWSFRADFSNRRRGFEEQWYRRPLWESGPTVDMPVPSSFNDISQDWRLRHF
VGWVWYEREVILPERWTQDLRTRVVLRIKSAHSYAIVWVNGVDTLEHEGGYLPFEADISNLVQVGPLPSRLRITIAIN
NTLTPTTLPPGTIQYLTDTSKYPKGYFVQNTYFDFFNAGLQRSVLLYTTPTTYIDDITVTTTSVEQDSGLVNYQISVKG
SNLFKLEVRLLDAENKVVANGTGTQGQLKVPVSLWWPYLMHERPAYLSLEVQLTAQTS LGPVSDFYTLPGVIRT
VAVTKSQFLINGKPFYFHGVNKHEDADIRGKGFDWPLLVKDFNLLRWLGANAFRTSHYPYAEVVMQMDRYGIVVI
DECPGVGLALPQFFNNVSLHHHMVMEEVVRDKNHPAVVMWSVANEPASHLESAGYYLKMVIAHTKSLDPSRP
VTFVSNSNYAADKGAPYVDVICLNSYYSWYHDYGHLELIQLQLATQFENWYKKYQKPIQSEYGAETIAGFHQDPPL
MFTEEYQKSLLEQYHLGLDQKRRKYVVGELIWNFADFMTESPTRVLGNKKGIFTRQRQPKSAFLLRERYWKIAN
ETRYPHSVAKSQCLENSLFTHHHHHH

Purity: > 95% by HPLC

Concentration: 0.25mg/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.