

Technical Data Sheet

HexB-P2A/HexA-His Heterodimer Protein

Catalog Number: 600901, 600902

Size: 25 ug, 100 ug

Target Name: Hexosaminidase A, Hexosaminidase B

Regulatory Status: RUO

Product Details

Application: ELISA

Format: Liquid, Purified

Expression Host: CHO

Species: Human

Accession Number: P07686/P06865

Sources: A DNA construct of HexB-P2A-HexA-His tag is transfected into CHO cells. Processed HexA/B heterodimer is consisted of two subunits: human Hex B(Ala43-Met556) with C-terminus P2A tag, and human HexA (Leu23-Thr529) with C-terminus His tag. Heterodimer protein is purified by Nickel resin with gradient elution to separate HexA/B heterodimer from HexA homodimer.

Molecular Weight: Human HexA protein has the predicted molecular weight of 60 kD and human HexB protein has the predicted molecular weight of 60.6 kD . Under DTT-reducing conditions, both proteins migrate at approximately 65 kDa on SDS-PAGE.

Affinity Tag: C-His

Purity: >95% based on SDS-PAGE under reducing condition

Formulation: 25 mM Tris, 150 mM NaCl, pH 7.5 (0.2 um filtered)

Endotoxin level: Not tested

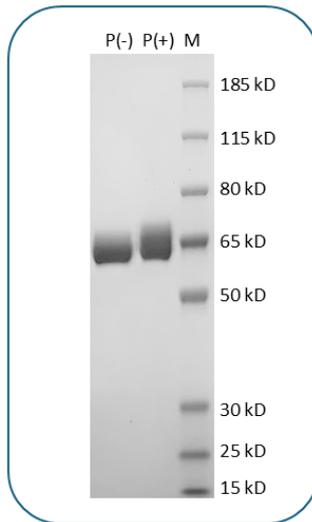
Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered 25 mM Tris, 150 mM NaCl, pH 7.5. For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

Background Information

Beta-hexosaminidases are lysosomal enzymes that hydrolyze terminal N-acetyl-D-hexosamine residues from GM2 gangliosides and globo-sphingolipids. They exist in three isoforms: Hex A ($\alpha\beta$), Hex B ($\beta\beta$), and Hex S ($\alpha\alpha$), formed by different combinations of α and β subunits encoded by the HEXA and HEXB genes. Recombinant HexB-P2A/HexA-His Heterodimer corresponds to Hex A isoform.

Product Data



Purified HexA/B heterodimer (HexA-His/HexB-P2A) final products on SDS-PAGE under non-reducing (P-) and reducing (P+) conditions. The purity of HexA/B heterodimer is greater than 95%.