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# HexA-His/HexB-FLAG Heterodimer Protein

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|---|---|
| **Catalog Number:** | 601001, 601002 |
| **Size:** | 25 ug, 100 ug |
| **Target Name:** | Hexosaminidase A, Hexosaminidase B |
| **Regulatory Status:** | RUO |

## PRODUCT DETAILS

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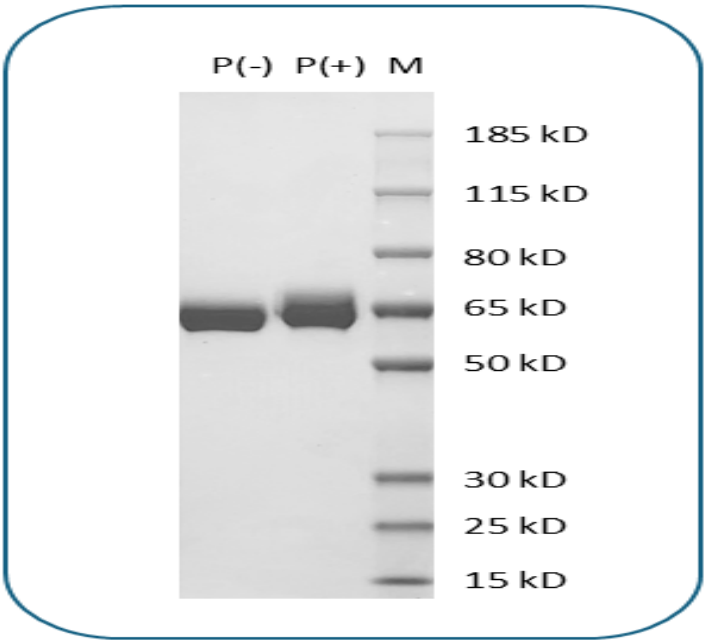
| **Application:** | ELISA |
| **Format:** | Liquid, Purified |
| **Expression Host:** | CHO |
| **Species:** | Human |
| **Accession Number:** | P07686/P06865 |
| **Sources:** | Recombinant human HexB (Ala43-Met556) with C-terminus DYKDDDDK tag and human HexA (Leu23-Thr529) with C-terminus His tag are co-expressed in CHO cells. Heterodimer protein is purified sequentially by anti-FLAG tag resin and Nickel resin. |
| **Molecular Weight:** | Human HexA protein has the predicted molecular weight of 60 kD and human HexB protein has the predicted molecular weight of 59.8 kD . Under DTT-reducing conditions, both proteins migrate at approximately 65 kDa on SDS-PAGE. |
| **Affinity Tag:** | C-His and C-DYKDDDDK |
| **Purity:** | >95% based on SDS-PAGE under reducing condition |
| **Formulation:** | 25 mM Tris, 150 mM NaCl, pH 7.5 (0.2 µm 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 (αβ), Hex B (ββ), and Hex S (αα), formed by different combinations of α and β subunits encoded by the HEXA and HEXB genes. Recombinant HexA-His/HexB-FLAG Heterodimer corresponds to Hex A isoform.

## PRODUCT DATA




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

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