

## Biotin HexA-His/HexB-FLAG Heterodimer Protein

|                           |                                    |
|---------------------------|------------------------------------|
| <b>Catalog Number:</b>    | 601003, 601004                     |
| <b>Size:</b>              | 25 ug, 100 ug                      |
| <b>Target Name:</b>       | Hexosaminidase A, Hexosaminidase B |
| <b>Regulatory Status:</b> | RUO                                |

### PRODUCT DETAILS

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| <b>Application:</b>           | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Format:</b>                | Liquid, Biotinylated                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Expression Host:</b>       | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species:</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Accession Number:</b>      | P07686/P06865                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sources:</b>               | 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. The purified heterodimer is then Biotinylated in vitro.                                                                                                                                                                        |
| <b>Molecular Weight:</b>      | 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.                                                                                                                                                                                                                                              |
| <b>Affinity Tag:</b>          | C-His and C-DYKDDDDK                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity:</b>                | >95% based on SDS-PAGE under reducing condition                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Formulation:</b>           | PBS with 0.09% NaN <sub>3</sub> , 1% BSA, 10% glycerol (0.2 µm filtered)                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Endotoxin level:</b>       | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Concentration:</b> | 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage and Handling:</b>  | 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 PBS. 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. |
| <b>Recommended Usage:</b>     | For detection, use a secondary reagent with this product.                                                                                                                                                                                                                                                                                                                                                                                                                    |

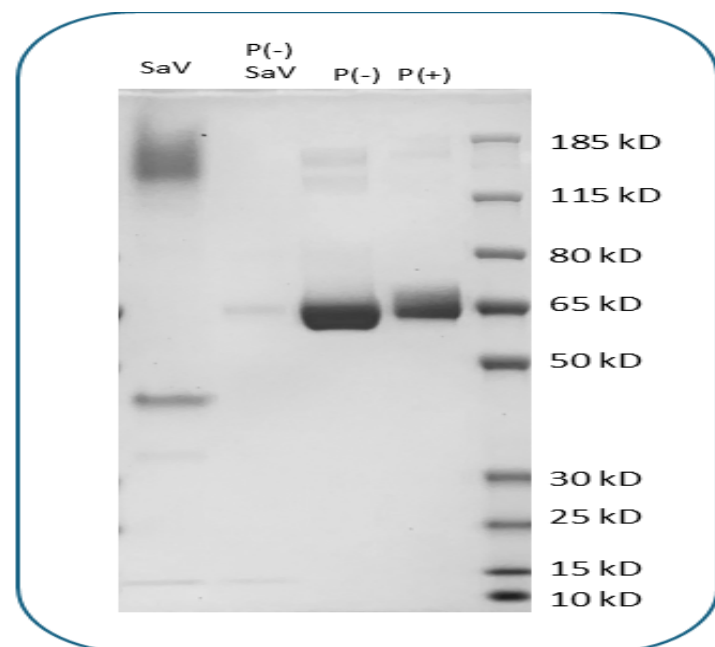
### BACKGROUND INFORMATION

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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

$\beta$  subunits encoded by the HEXA and HEXB genes. Recombinant HexA-His/HexB-FLAG Heterodimer corresponds to Hex A isoform.

## PRODUCT DATA



Biotinylated HexA/B heterodimer (HexA-His/HexB-FLAG) final product on SDS-PAGE under non-reducing (P-) and reducing (P+) conditions. The purity of HexA/B heterodimer (HexA-His/HexB-FLAG) is greater than 95%. Based on Gel shift Assay by co-incubation with Streptavidin, biotinylation efficiency is >95% for HexA/B heterodimer

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