

## 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.

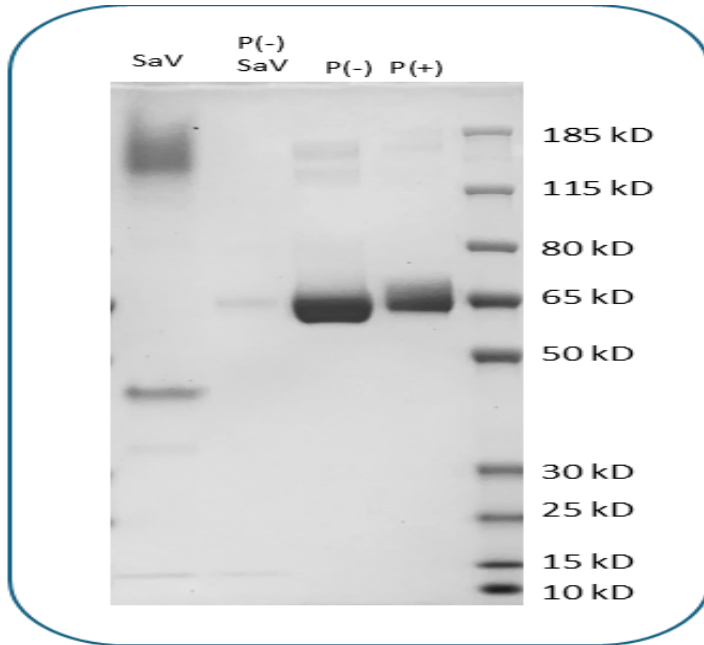
### BACKGROUND INFORMATION

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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 ( $\alpha\beta$ ), Hex B ( $\beta\beta$ ), and Hex S ( $\alpha\alpha$ ), formed by different combinations of  $\alpha$  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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