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Biotin HexA-His/HexB-FLAG Heterodimer Protein

Catalog Number:	601003, 601004
Size:	25 ug, 100 ug
Target Name:	Hexosaminidase A, Hexosaminidase B
Regulatory Status:	RUO

PRODUCT DETAILS

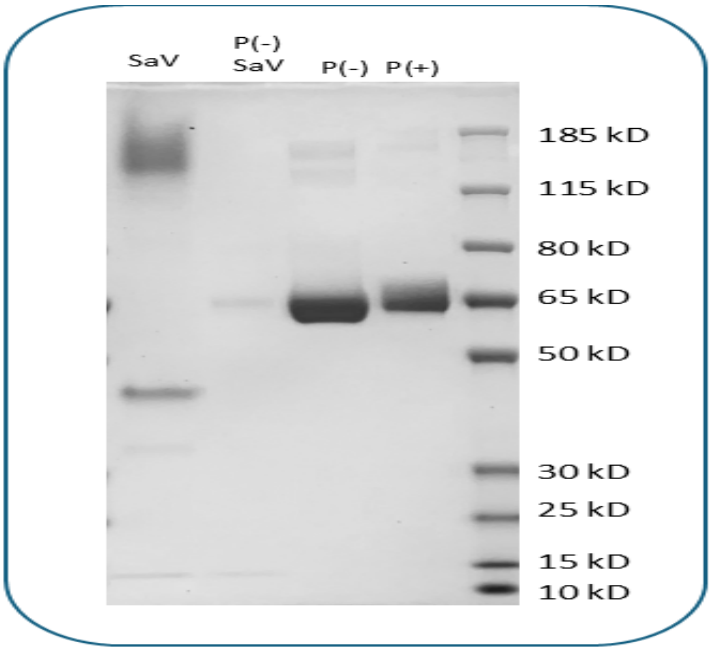
Application:	ELISA
Format:	Liquid, Biotinylated
Expression Host:	CHO
Species:	Human
Accession Number:	P07686/P06865
Sources:	Recombinant human HexB (Ala43-Met556) with C-terminus DYKDDDDK tag and human HexA (Leu23-Thr529) with C-terminus His tag are co-expressed in CHO cells. Heterodimer protein is purified sequentially by anti-FLAG tag resin and Nickel resin. The purified heterodimer is then Biotinylated in vitro.
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:	PBS with 0.09% NaN3, 1% BSA, 10% glycerol (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 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.
Recommended Usage:	For detection, use a secondary reagent with this product.

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



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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