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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

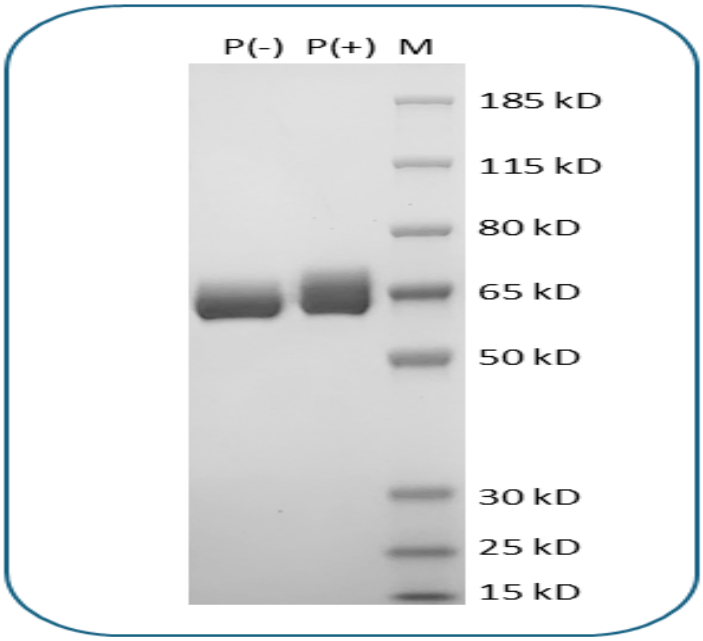
Application:	ELISA
Format:	Liquid, Purified
Expression Host:	CHO
Species:	Human
Accession Number:	P07686/P06865
Sources:	A DNA construct of HexB-P2A-HexA-His tag is transfected into CHO cells. Processed HexA/B herterodimer is consisted of two subunits: human Hex B(Ala43-Met556) with C-terminus P2A tag, 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 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 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%.

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