

## Human HexA Protein (C-FLAG)

|                           |                  |
|---------------------------|------------------|
| <b>Catalog Number:</b>    | 600701, 600702   |
| <b>Size:</b>              | 25 ug, 100 ug    |
| <b>Target Name:</b>       | Hexosaminidase A |
| <b>Regulatory Status:</b> | RUO              |

### PRODUCT DETAILS

---

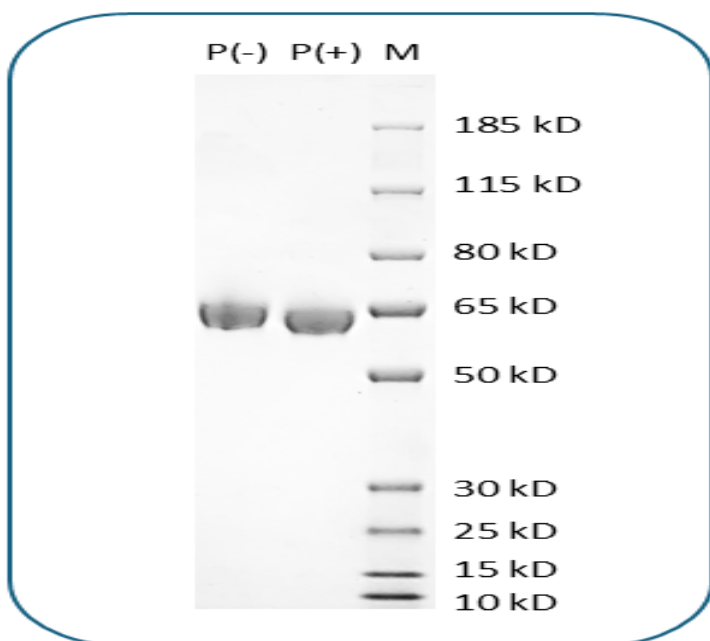
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application:</b>           | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Format:</b>                | Liquid, Purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Expression Host:</b>       | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species:</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Accession Number:</b>      | P06865                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sources:</b>               | Human HexA (Leu23-Thr529) protein with C-terminus DYKDDDDK tag is expressed in CHO cells.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Weight:</b>      | This protein has a predicted molecular weight of 59.9 kDa. Under DTT-reducing conditions, the protein migrates at approximately 65 kDa on SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Affinity Tag:</b>          | C-DYKDDDDK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity:</b>                | >95% based on SDS-PAGE under reducing condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Formulation:</b>           | 1xPBS buffer, pH7.4, 0.22 $\mu$ m filtered                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Endotoxin level:</b>       | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Concentration:</b> | 25 $\mu$ g size is bottled at 0.2mg/mL concentration. 100 $\mu$ g 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 $\mu$ m-filtered 25 mM Tris, 150 mM NaCl, pH 7.5. For long-term storage, the diluted stock solution should be aliquoted and stored at $\leq$ -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 ( $\alpha\beta$ ), 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 corresponds to Hex S and cleaves non-reducing end N-acetylgalactosamine residues from dermatan sulfate, chondroitin sulfate, and sulfated glycolipids, and is also active against 4-methylumbelliferyl-N-acetyl- $\beta$ -D-glucosaminide. Mutations in HEXA cause Tay-Sachs disease, a fatal lysosomal storage disorder marked by GM2 ganglioside accumulation in neurons, typically leading to death by age 4.

## PRODUCT DATA



Purified HexA (C-DYKDDDDK, CHO expressed) final product on SDS-PAGE under non-reducing (P-) and reducing (P+) conditions. The purity of HexA appears to be greater than 95%.

This product is supplied subject to the terms and conditions at [www.innocyto.com/web/terms.php](http://www.innocyto.com/web/terms.php) and may only be used as provided in the stated terms. Products are for Research Use Only.