

## HEXA Protein, Human, Recombinant (Subunit A, His)

### General Information

Synonyms:	hexosaminidase A (alpha polypeptide);hexosaminidase A ( $\alpha$ polypeptide);TSD
Protein Construction:	A DNA sequence encoding the human HEXA (AAD13932.1) (Met 1-Thr 529) was fused with a polyhistidine tag at the C-terminus. Predicted N terminal: Leu 23
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	AAD13932.1
Molecular Weight:	59.7 kDa (predicted); 64 kDa (reducing conditions)

### QC Testing

Biological Activity:	Measured by its ability to hydrolyze 4-methylumbelliferyl-N-acetyl- $\beta$ -D-glucosaminide (4-MU-Glc-NAc). The specific activity is $>1,250$ pmoles/min/ $\mu$ g.
Purity:	$> 95$ % as determined by SDS-PAGE
Endotoxin:	$< 1.0$ EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a $0.22$ $\mu$ m filter, containing $20$ mM Tris, $500$ mM NaCl, pH $7.4$ . Typically, a mixture containing $5\%$ to $8\%$ trehalose, mannitol, and $0.01\%$ Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

It is recommended to store recombinant proteins at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at  $-80^{\circ}\text{C}$ . For reconstituted protein solutions, the solution can be stored at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

#### Reference

- Norflus,F. et al., 1996, DNA Cell Biol. 15 (2):89-97.
- Kaufman M., et al., 1997, Hum. Mutat. 10:295-300.
- Tanaka A., et al., 2003, J. Hum. Genet. 48:571-574.
- Chen R., et al., 2009, J. Proteome Res. 8:651-661.
- Burkard T.R., et al., 2011, BMC Syst. Biol. 5:17-17.

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