

## EsxH Protein, Mycobacterium tuberculosis, Recombinant (His & SUMO)

### General Information

Synonyms:	esxH;Protein TB10.4;ESAT-6-like protein EsxH;cfp7;10 kDa antigen CFP7 (CFP-7);Low molecular weight protein antigen 7
Protein Construction:	2-96 aa
Species:	Mycobacterium tuberculosis
Expression Host:	E. coli
Accession:	P9WNK2
Molecular Weight:	26.3 kDa (predicted)
AA Sequence:	SQIMYNYPAMLGHAGDMAGYAGTLQSLGAEIAVEQAALQSAWQGGDTGITYQAWQAQWNQAMEDLVRAY HAMSSTHEANTMAMMARDTAEAAKWGG

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### 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:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°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.

### Protein Background

EsxH, in complex with EsxG, disrupts ESCRT function and impairs host phagosome maturation, thereby promoting intracellular bacterial growth. The complex acts by interacting, via EsxH, with the host hepatocyte growth factor-regulated tyrosine kinase substrate (HGS/HRS), a component of the ESCRT machinery.

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