

## YopB Protein, *Yersinia enterocolitica* (Cell-Free, His, SUMO)

Cat. No.:	HY-P702492
Synonyms:	Type 3 secretion system translocon protein SctE; Translocator YopB; Yersinia outer protein B
Species:	Others
Source:	E. coli Cell-free
Accession:	P37131 (M1-V401)
Gene ID:	/
Molecular Weight:	57.9 kDa

### PROPERTIES

AA Sequence	<pre> MSALITHDRS   TPVTGSLVPY   IETPAPAPLQ   TQQVAGELKD KNGGVSSQGV   QLPAPLAVVA   SQVTEGQQQE   ITKLLSVTR GTAGSQLISN   YVSVLTNFTL   ASPDTFEIEL   GKLVSNLEEV RKDIKIADIQ   RLHEQNMKKI   EENQEKIKET   EENAKQVKKS GMAKIFGWL    IAIASVVIGA   IMVASGVGAV   AGAMMIASGV IGMANMAVKQ   AAEDGLISQE   AMQVLGPILT   AIEVALTVVS TVMTFGGSAL   KCLADIGAKL   GANTASLAAK   GAEFSAKVAQ ISTGISNTVG   SAVTKLGGSF   GSLTMSHVIR   TGSQATQVAV GVGSGITQTI   NNKKQADLQH   NNADLALNKA   DMAALQSIID RLKEELSHLS   ESHRQVMELI   FQMINKGDM    LHNLAGRPHT V </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

YopB, a crucial component of the type III secretion system (T3SS) or injectisome, participates in injecting bacterial effector proteins into eukaryotic host cells. Alongside YopD, YopB is integrated into the host membrane, forming a pore that facilitates the translocation of effector proteins into the cytosol of target cells. This process is fundamental for the virulence of the bacterium, as YopB is an essential virulence determinant. Its role extends to being required for the translocation of specific effectors like YopE and is indispensable for the establishment of *Yersinia* infections in a mouse model system. Interestingly, YopB does not play a direct role in targeting effector Yops but might influence the host's immune response at a distance from the infection site.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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