

IpaD Protein, Shigella flexneri, Recombinant (His & Myc & SUMO)

General Information

Synonyms:	Invasin IpaD;36 kDa membrane antigen;ipaD
Protein Construction:	1-332 aa
Species:	Shigella flexneri
Expression Host:	E. coli
Accession:	P18013
Molecular Weight:	56.6 kDa (predicted)
AA Sequence:	MNITTLNSISTSSFSPNNTNGSSTETVNSDIKTTTSSHPVSSLTMLNDTLHNIRTTNQALKKELSQKTLTKTSLE EIALHSSQISMDVNKSAQLLDILSRNEYPIPKDARELLHSAPKEAELDGDQMISHRELWAKIANSINDINEQYL KVYEHAVSSYTQMYQDFSAVLSSLAGWISPGNDGNSVKLQVNSLKKALEELKEYKDKPLYPANNTVSQE QANKWLTELGGTIGKVSQKNGGYVVSINMTPIDNMLKSLDNLGGNGEVVLDNAKYQAWNAGFSAEDET MK NNLQTLVQKYSNANSIFDNLVKVLSSTISSCTDCLKFLHF

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

Required for bacterial invasion of host cells. Controls IpaB and IpaC secretion, and the efficiency with which they are physically inserted into target cell membranes. These proteins are exported via TTSS to form a pore in the host membrane that allows the translocation of the other effectors into the host cytoplasm. Along with IpaB, is

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essential for both blocking secretion through the Mxi/Spa translocon in the absence of a secretion-inducing signal, and for controlling the level of secretion in the presence of this signal.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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