

IpaB Protein, Shigella flexneri, Recombinant (His)

General Information

Synonyms:	62 kDa antigen; Type 3 secretion system translocon protein SctE; sctE; Invasin IpaB; ipaB; T3SS translocon protein SctE
Protein Construction:	1-312 aa
Species:	Shigella flexneri
Expression Host:	E. coli
Accession:	P18011
Molecular Weight:	40.6?kDa (predicted)
AA Sequence:	MHNVSTTTTGFP LAKILTSTELGDNTIQAANDAANKLFS LTIADLTANQNINTTNAHSTSNILIP ELKAPKSLNA SSQLTLLIGNLIQILGEKSLTALTNKITAWKSQQARQKNLEFSDKINTLLSETEGLTRDYEQINKLKNADSKI KDLENKINQIQTRLSELDPE SPEKKLSREEIQLTIKKDAAVKDRTLIEQKTL SIH SKLTDKSMQLEKEIDSFSAFS NTASAEQLSTQQKSLTGLASVTQLMATFIQLV GKNNEESLKN DLALFQSLQESRKTEMERKSDEYAAEVRKAE ELNRVMGCVGK

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:	> 85% 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

Effector proteins function to alter host cell physiology and promote bacterial survival in host tissues. Forms a pore with IpaC, which is inserted into the host cell membrane through the Mxi/Spa apparatus, during cell contact. This

pore probably allows the translocation of IpaA. IpaB has also been found to be necessary and sufficient to activate macrophage apoptosis by binding to interleukin-1 beta converting enzyme (ICE). Has also been shown to be important, along with IpaD, to block or regulate secretion through the Mxi/Spa translocon in the presence or absence of the secretion signal, respectively. Through interaction with host human MAD2L2, constitutively activates the anaphase-promoting complex APC and induces a cell cycle arrest to prevent epithelial renewal in order to promote bacterial colonization.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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