

# Recombinant Shigella Flexneri Serotype X IPA9.8 Protein (1-545 aa), His-tagged

**Cat. No.** IPA9.8-1639S    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Shigella Flexneri Serotype X (strain 2002017) IPA9.8 Protein (1-545 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Shigella Flexneri Serotype X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-545 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Effector proteins function to alter host cell physiology and promote bacterial survival in host tissues. This protein is an E3 ubiquitin ligase that interferes with host's ubiquitination pathway and modulates the acute inflammatory responses, thus facilitating bacterial colonization within the host cell. Interacts with IKBKG (NO) and TNIP1 (ABIN-1), a ubiquitin-binding adapter protein, which results in TNIP1-dependent 'Lys-27'-linked polyubiquitination of IKBKG. Consequently, polyubiquitinated IKBKG undergoes proteasome-dependent degradation, which perturbs NF-kappa-B activation during bacterial infection. Uses UBE2D2 (UBCH5B) as an E2 ubiquitin-conjugating enzyme. Mediates polyubiquitination of host U2AF1, leading to its proteasomal degradation. |
| <b>Form</b>             | Tris-based buffer,50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 64.0 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>      | MLPINNNFSLPQNSFYNTISGTYADYFSAWDKWEKQALPGEERDEAVSRLKECLINN<br>SDELRLDRLNLSSLPDNLPAQITLLNVSYNQLTNLPELPVTLKKLYSASNKLSELPVLP<br>PALESLQVQHNELENLPALPDSLLTMNISYNEIVSLPSLPQALKNLRATRNLTELPAF<br>SEGNPNPVVREYFFDRNQISHIPESILNLRNECSIHISDNPLSSHALQALQRLTSSPDYH<br>GPRIYFSMSDGQQNTLHRPLADAVTAWFPENKQSDVSQIWHAFEHEEHANTFSAFL<br>DRLSDTVSARNTSGFREQVAAWLEKLSASAELRQQSFAVAADATESCEDRVALTW<br>NNLRKTLLVHQASEGLFDNDTGALLSLGREMFRLEILEDIARDKVRTLHFVDEIEVYL<br>AFQTMLAEKLQLSTAVKEMRFYGVSGVTANDLRTAEAMVRSRENEFTDWFSLWG<br>PWHAVLKRTEADRWAQAEQKYEMLENEYPQRVADRLKASGLSGDADAEREAGA<br>QVMRETEQQIYRQLTDEVLALRLSENGSQLHHS |
| <b>Purity</b>           | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>          | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.                                                                                                                                                                                                                                                                                 |
| <b>Concentration</b>    | A hardcopy of COA with reconstitution instruction is sent along with the products.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>        | ipaH9.8 T3SS effector E3 ubiquitin-protein ligase IpaH9.8 [ <i>Shigella flexneri</i> 5a str. M90T ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>  | IPAH9.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>         | ipaH9.8; Invasion plasmid antigen ipaH9.8;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

 Tel: 1-631-559-9269 1-516-512-3133

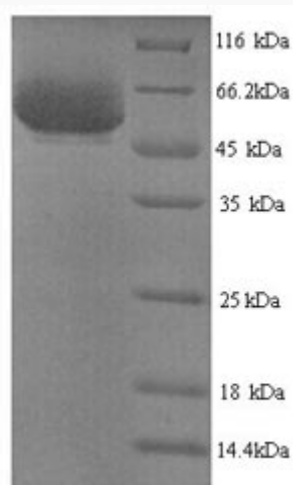
 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Gene ID** 40047555

**Protein Refseq** WP\_000936806

**UniProt ID** D2AJU0



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA