

E3 ubiquitin-protein ligase ipaH9.8 Recombinant Protein | ipaH9.8 recombinant protein

Recombinant Shigella flexneri serotype X E3 ubiquitin-protein ligase ipaH9.8

CATALOG #
AAA114723

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

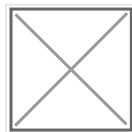
PRODUCT SYNONYMS

E3 ubiquitin-protein ligase ipaH9.8; Recombinant Shigella flexneri serotype X E3 ubiquitin-protein ligase ipaH9.8; Invasion plasmid antigen ipa; H9.8; ipaH9.8 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-545aa; Full Length
Sequence	MLPINNFSL PQNSFYNTIS GTYADYFSAW DKWEKQALPG EERDEAVSRL KECLINNSDE LRLDRLNLSS LPDNLPAQIT LLNVSYNQLT NLPPLVTLK KLYSASNKLS ELPVLPPALE SLQVQHNELE NLPALPDSLL TMNISYNEIV SLPSLPQALK NLRATRNLFT ELPAFSEGNN PVRREYFFDR NQISHIPESI LNLRNECSIH ISDNPLSSHA LQALQRLTSS PDYHGPRIFY SMSDGQQNTL HRPLADAVTA WFPENKQSDV SQIWHAFEHE EHANTFSAFL DRLSDTVSAR NTSGFREQVA AWLEKLSASA ELRQQSFAVA ADATESCEDR VALTWNNLRK TLLVHQASEG LFDNDTGALL SLGREMFRLE ILEDIARDKV RTLHFVDEIE VYLAFTMLA EKLQLSTAVK EMRFYGVSGV TANDLRTAEA MVRGRENEF TDWFSWGPW HAVLKRTEAD RWAQAEQKY EMLENEYPQR VADRLKASGL SGDADAEREA GAQVMRETEQ QIYRQLTDEV LALRLENGS QLHHS
Sequence Length	545
Production Note	Special Offer: The Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. Yeasthost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ipaH9.8 recombinant protein	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.
References	Induction of type III secretion in Shigella flexneri is associated with differential control of transcription of genes encoding secreted proteins.Demers B., Sansonetti P.J., Parsot C.EMBO J. 17:2894-2903(1998) The virulence plasmid pWR100 and the repertoire of proteins secreted by the type III secretion apparatus of Shigella flexneri.Buchrieser C., Glaser P., Rusniok C., Nedjari H., d'Hauteville H., Kunst F., Sansonetti P.J., Parsot C.Mol. Microbiol. 38:760-771(2000) Complete DNA sequence and analysis of the large virulence plasmid of Shigella flexneri.Venkatesan M.M., Goldberg M.B., Rose D.J., Grotbeck E.J., Burland V., Blattner F.R.Infect. Immun. 69:3271-3285(2001) Comparison of two major forms of the Shigella virulence plasmid pINV positive selection is a major force driving the divergence.Lan R., Stevenson G., Reeves P.R.Infect. Immun. 71:6298-6306(2003) Comparison of the virulence plasmid genomes of two strains of Shigella which lost the ability to bind Congo red.Xiong Z., Tang X., Yang F., Zhang X., Yang J., Chen L., Nie H., Yan Y., Jiang Y., Wang J., Xue Y., Xu X., Zhu Y., Dong J., An L., Wang X., Jin Q.Sci. China, Ser. C, Life Sci. 49:141-148(2006) Genome sequence of Shigella flexneri 2a insights into pathogenicity through comparison with genomes of Escherichia coli K12 and O157.Jin Q., Yuan Z., Xu J., Wang Y., Shen Y., Lu W., Wang J., Liu H., Yang J., Yang F., Zhang X., Zhang J., Yang G., Wu H., Qu D., Dong J., Sun L., Xue Y., Zhao A., Gao Y., Zhu J., Kan B., Ding K., Chen S., Cheng H., Yao Z., He B., Chen R., Ma D., Qiang B., Wen Y., Hou Y., Yu J.Nucleic Acids Res. 30:4432-4441(2002) Shigella protein IpaH(9.8) is secreted from bacteria within mammalian cells and transported to the nucleus.Toyotome T., Suzuki T., Kuwae A., Nonaka T., Fukuda H., Imajoh-Ohmi S., Toyofuku T., Hori M., Sasakawa C.J. Biol. Chem. 276:32071-32079(2001) Shigella effector IpaH9.8 binds to a splicing factor U2AF(35) to modulate host immune responses.Okuda J., Toyotome T., Kataoka N., Ohno M., Abe H., Shimura Y., Seyedarabi A., Pickersgill R., Sasakawa C.Biochem. Biophys. Res. Commun. 333:531-539(2005) Type III secretion effectors of the IpaH family are E3 ubiquitin ligases.Rohde J.R., Breitkreutz A., Chenal A., Sansonetti P.J., Parsot C.Cell Host Microbe 1:77-83(2007) A bacterial E3 ubiquitin ligase IpaH9.8 targets NEMO/IKKgammma to dampen the host NF-kappaB-mediated inflammatory response.Ashida H., Kim M., Schmidt-Supprian M., Ma A., Ogawa M., Sasakawa C.Nat. Cell Biol. 12:66-73(2010) Structure of an SspH1-PKN1 complex reveals the basis for host substrate recognition and mechanism of activation for a bacterial E3 ubiquitin ligase.Keszei A.F., Tang X., McCormick C., Zeqiraj E., Rohde J.R., Tyers M., Sicheri F.Mol. Cell. Biol. 34:362-373(2014) A disulfide driven domain swap switches off the activity of Shigella IpaH9.8 E3 ligase.Seyedarabi A., Sullivan J.A., Sasakawa C., Pickersgill R.W.FEBS Lett. 584:4163-4168(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	56404031
NCBI GeneID	1238048
NCBI Accession #	NP_858359.2
NCBI GenBank Nucleotide #	NC_004851.1
UniProt Accession #	Q8VSC3; O85159; Q2TH74; Q6XVV1; Q9AFM5; Q9AJV1
Molecular Weight	64.0 kDa
NCBI Official Full Name	invasion plasmid antigen, secreted by the Mxi-Spa secretion machinery (plasmid)
NCBI Official Symbol	ipaH9.8
NCBI Protein Information	invasion plasmid antigen, secreted by the Mxi-Spa secretion machinery
UniProt Protein Name	E3 ubiquitin-protein ligase ipaH9.8
UniProt Gene Name	ipaH9.8
UniProt Entry Name	IPA9_SHIFL

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ipah9-8-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114723>