

Transposase for transposon Tn5 (tnpA)(E54K,L372P) Recombinant Protein | tnpA recombinant protein

Recombinant Escherichia coli Transposase for transposon Tn5 (tnpA)(E54K,L372P)

CATALOG # AAA278934	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Transposase for transposon Tn5 (tnpA)(E54K; L372P); Recombinant Escherichia coli Transposase for transposon Tn5 (tnpA)(E54K; Transposase for transposon Tn5(EC 3.1.-.-)(Tnp); tnpA 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	1-476aa (E54K,L372P); Full Length Protein
Sequence	MITSALHRAA DWAKSVFSSA ALGDPRTAR LVNVAQLAK YSGKSITISS EGSKAMQEGA YRFIRNPVNS AEAIRKAGAM QTVKLAQEFPP ELLAIEDTTS LSYRHQVAEE LGKLGSIQDK SRGWWVHSV LLEATTFTV GLLHQEWWMR PDDPADADEK ESGKWAAAA TSRLRMGSMM SNVAVCDRE ADIHAYLQDK LAHNERFVVR SKHPRKDVES GLYLYDHLKN QPELGGYQIS IPQKGVVDKR GKRKNRPARK ASLSLRSGRI TLKQGNITLN AVLAEIINPP KGETPLKWLL LTSEPVESLA QALRVIDIYT HRWRIEFHK AWKTGAGAER QRMEEPNDLE RMVSILSFVA VRLLQLRESF TPPQALRAQG LLKEAEHVES QSAETVLPD ECQLLYLDK GKRKRKEKAG SLQWAYMAIA RLGGFMDSKR TGIASWGALW EGWEALQSKL DGFLAAKDLM AQGIKI
Species	Escherichia coli
Relevance	Mediates transposition of transposon Tn5 by a 'cut and paste' mechanism. First, the monomeric transposase binds the 19 bp inverted DNA repeats flanking the transposon. Then, dimerization of the DNA-bound transposase creates a synaptic DNA complex. After nicking of the first DNA strand, excision of the transposon proceeds through a series of intermediates. The transposase then mediates the insertion of the transposon at a new site by strand transfer. The activity of the wild-type transposase is very low, and is further inhibited by dimerization with the transposase inhibitor (inh).
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.

ADDITIONAL INFORMATION

Product Categories/Family for tnpA recombinant protein	Others
References	"Evidence for 'unseen' transposase-DNA contacts."Steiniger-White M., Bhasin A., Lovell S., Rayment I., Reznikoff W.S.J. Mol. Biol. 322:971-982(2002)

NCBI AND UNIPROT INFORMATION

NCBI GI #	446555687
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NCBI Accession #	WP_000633033.1
NCBI GenBank Nucleotide #	WP_000633033.1
UniProt Accession #	Q46731; Q08JA5; Q47661; Q57460
Molecular Weight	47,575 Da
NCBI Official Full Name	MULTISPECIES: IS4 family transposase IS50R
UniProt Protein Name	Transposase for transposon Tn5
UniProt Gene Name	tnpA
UniProt Synonym Gene Names	tnp

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/tnpa-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/278934>