

Bioactive

Reverse Transcriptase (HIV) Recombinant Protein

Catalog # P5324 Size 200 Units

Specification	
Product Description	Chromatographically purified dimeric form with M.W. of 66 kDa and 51 kDa.
Biological function	Reverse transcriptases are enzymes encoded in retroviruses viral genome. The enzyme is responsib le for transcription of the viral RNA to produce a dsDNA that can be inserted into the host genome.
Host	Escherichia coli
Form	Liquid
Preparation Method	Escherichia coli expression system
Activity	>=5,000 units per mg protein. One Unit incorporates 1 nmole of tritiated d-TMP into acid precipitable products using poly(A)/oligo(dT)12-18 as the template/primer in 20 minutes at 37°C, pH 8.3.
Recommend Usage	Reverse Transcriptase Assay. HIV reverse transcriptase is used for research on the AIDS primer. Ho wever it can be substituted for AMV reverse transcriptase, which is mainly used to transcribe mRNA i nto double stranded cDNA, that can be inserted into prokaryotic vectors. The enzyme can also be us ed with either single stranded DNA or RNA templates to make probes for use in hybridization experi ments. It can be used for labeling the termini of DNA fragments with protruding 5' termini. The enzym e can also be used to sequence DNAs by the dideoxy chain termination method of Sanger when the Klenow fragment of E. coli DNA polymerase I, or the T7 DNA polymerase yield unsatisfactory results.
Storage Buffer	In 10 mM potassium phosphate, pH 7.4 (1 mM DTT and 20% glycerol).
Storage Instruction	Store at -20°C.

Applications

Enzyme Activity