



Product Data Sheet

□ Cat # RP-555

Recombinant HIV-1 pol Integrase

Size: □ 10 ug

Integrase is an enzyme produced by the HIV which enables its genetic material to be integrated into the DNA of the infected cell and is a key component in the pre-integration complex. HIV integrase contains 3 domains, an N-terminal HH-CC zinc finger domain which is partially responsible for multimerization, a central catalytic domain and a C-terminal domain. Both Central catalytic domain and C-terminal domains have been shown to bind both viral and cellular DNA. No crystal structure data exists with Integrase bound to its DNA substrates. HIV-1 integrase functions as a dimer or a tetramer. Additionally, several host cellular proteins interact with integrase and may facilitate the integration process.

Description:

The E.coli derived 26 kDa recombinant protein is a non-glycosylated polypeptide chain, containing the HIV-1 immunodominant regions from the pol protein (integrase, >95% pure). It is supplied in 1.5M urea, 25mM Tris-HCl pH 8.0, 0.2% Triton-X and 50% Glycerol. Protein is shipped at ambient temperature. Upon arrival, Store at -20°C Stable for Five years frozen. One month in solution at room temperature. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Specificity:

Immunoreactive with all sera of HIV-1 infected individuals.

Applications:

Antigen in ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems.

Usage:

This item is for LABORATORY RESEARCH USE ONLY.

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