

Active Recombinant HIV-1 Integrase p31 Antigen, His-tagged

Cat. No. INT-356H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant HIV-1 Integrase p31 Antigen (9-289 aa) is produced by E. coli expression system. The E.coli derived recombinant protein is a non-glycosylated polypeptide chain, containing the HIV-1 immunodominant regions from the p31 protein (integrase) 9-289 amino acids, fused with six histidines at N-terminus.
Species	HIV
Source	E.coli
ProteinLength	9-289 aa
Description	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 fingerdomainwhich 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 dimeror a tetramer. Additionally, several host cellular proteins interact with integrase and may facilitate the integration process.
Form	Sterile filtered colorless clear solution.. 1.5M urea, 25mM Tris-HCl pH 8.0, 0.2% Triton-X & 50% Glycerol.
Bio-activity	Immunoreactive with all sera of HIV-1 infected individuals.

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Purity	> 95.0% as determined by HPLC analysis and SDS-PAGE.
Applications	HIV-1 Integrase p31 antigen is suitable for ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems.
Notes	LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	HIV-1 Integrase p31 although stable at 4 centigrade for 1 week, should be stored below -18 centigrade. Please prevent freeze thaw cycles.

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