Recombinant HIV-I pol Integrase His

Catalog No.	CSI15813A	**Quantity:**	100 µg
	CSI15813B		0.5 mg
	CSI15813C		1.0 mg

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 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.
The *E. coli* derived 26 kDa recombinant protein is a non-glycosylated polypeptide chain, containing the HIV-1 immunodominant regions from the pol protein (intergrase) and fused with six histidines at the N-terminus

Source: *E. coli*

Molecular Weight: 26 kDa

Formulation: 1.5 M urea + 25 mM Tris-HCl, pH 8.0 + 0.2% Triton-X and 50% Glycerol.

Purity: Greater than 95.0% as determined by HPLC analysis and SDS-PAGE.

Physical Appearance: Sterile filtered colorless clear solution.

Specific Activity: Immunoreactive with all sera of HIV-1 infected individuals.

Applications: HIV-1 Integrase antigen is suitable for ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems.

Storage & Stability: HIV-1 Integrase although stable at 4°C for 1 week, should be stored below -18°C. **Please prevent freeze thaw cycles.**

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