RayBiotech, Inc.
3607 Parkway Lane suite 200
Norcross,GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Recombinant HIV-1 Pol Integrase

Catalog No.	**Source**
228-10731	*Escherichia coli*

Introduction

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 (intergrase) and fused with six histidines at the N-terminus.

Physical Appearance

Sterile filtered colorless clear solution

Formulation

1.5M urea, 25mM Tris-HCl pH 8.0, 0.2% Triton-X & 50% Glycerol.

Purity

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

Stability

Protein is shipped at ambient temperature. Upon arrival, store at -20°C. Stable for five years frozen. One month in solution at room temperature.

Specificity

Immunoreactive with all sera of HIV-1 infected individuals.

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Applications

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