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## Product Data Sheet

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Product Name: HIV-1 Integrase p31

Cat. No.: GP25410

Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	1.5M urea, 25mM Tris-HCl pH 8.0, 0.2% Triton-X & 50% Glycerol.		

### 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.

### Stability

HIV-1 Integrase p31 although stable at 4°C for 1 week, should be stored below -18°C . Please prevent freeze thaw cycles.

### Background

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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