Product Data Sheet

Product Name:	HIV-1 Integrase
Cat. No.:	GP25409
Batch No.:	1

Product Data

Purity	>98%	Source	
Phycical Appearance	solid	Shipping Condition	
Amino Acid Sequence	MFLDGIDKAQEEHEKYHSNWRAMASDFNLPPVVAKEIVASCDKCQLKGEAMHGQVDCSPGIWQLDCTHLEGKVILVAVHVASGYIEAEVIPAETGQET/		
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 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.

Stability

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

Background

The E.coli derived 36 kDa recombinant protein is a non-glycosylated polypeptide chain, containing the HIV-1 immunodominant regions from the pol protein (intergrase) and fused with a six histidines tag.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA