



Recombinant HIV Integrase p31 (a.a. 9-289) [His] (DAG485)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant Human Immunodeficiency Virus antigen, contains HIV-1 immunodominant regions from integrase p31 (a.a.9-289) and a 6-His fusion partner, was expressed in E. coli. Reacts with human HIV positive serum.
Antigen Description	Integrase is an enzyme, a product of the HIV1 Gag/Pol gene; the other two enzymes being reverse transcriptase and protease. The human immunodeficiency virus (HIV-1) uses an enzyme, a so-called integrase, to carry out the integration of its viral DNA into the host chromosome thereby tricking the host cell machinery into making viral proteins. The HIV-1 integrase is a protein of 32 kDa and is composed of three domains. No cellular homologue of HIV integrase has been described, so potential inhibitors to this enzyme could be relatively nontoxic.
Species	HIV
Purity	> 95% pure (SDS-PAGE)
Conjugate	His
Applications	Suitable for use in ELISA, Western blot and Lateral flow. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Purified, Liquid
Concentration	Lot specific
Buffer	1.5M urea, 25mM Tris-HCl, pH 8.0 containing 0.02% Triton-X and 50% glycerol
Preservative	None

BACKGROUND

Introduction

Human immunodeficiency virus (HIV) is a lentivirus (a member of the retrovirus family) that causes acquired immunodeficiency syndrome (AIDS), a condition in humans in which progressive failure of the immune system allows life-threatening opportunistic infections and cancers to thrive. Infection with HIV occurs by the transfer of blood, semen, vaginal fluid, pre-ejaculate, or breast milk. Within these bodily fluids, HIV is present as both free virus particles and virus within infected immune cells. The four major routes of transmission are unsafe sex, contaminated needles, breast milk, and transmission from an infected mother to her baby at birth (perinatal transmission). Screening of blood products for HIV has largely eliminated transmission through blood transfusions or infected blood products in the developed world.

Keywords

HIV; IN; Human immunodeficiency virus Integrase p31; Human immunodeficiency virus 1; Integrase; p31; Integrase p31; HIV Integrase p31; Retroviridae; Lentivirus
