Recombinant HIV HIVI protein, His-tagged

Cat. No. HIVI-174H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The E.coli derived 36kDa 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.
Species	HIV
Source	E.coli
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 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.
Form	Sterile filtered colorless clear solution. 1.5M urea, 25mM Tris-HCl pH 8.0, 0.2% Triton-X & 50% Glycerol.
Molecular Mass	36kDa
AA sequence	mfldgidkaqeehekyhsnwramasdfnlppvvakeivascdkcqlkgeamhgqvdcspgiwqldcthlegkvilv avhvasgyieaevipaetgqetayfilklagrwpvktihtdngsnftsttvkaacwwagikqefgipynpqsqgviesm

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	nkelkkiigqvrdqaehlktavqmavfihnfkrkggiggysagerivdiiatdiqtkelqkqitkiqnfrvyyrdsrdplwkg pakllwkgegavviqdnsdikvvprrkakiirdygkqmagddcvasrqdedhhhhhh.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Applications	HIV-1 Integrase antigen is suitable for ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems.
Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	HIV-1 Integrase although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Specificity	Immunoreactive with all sera of HIV-1 infected individuals.
Shipping	Ice Packs

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