Creative Enzymes®

HIV-1 Protease, Recombinant

Cat. No. NATE-1662

Lot. No. (See product label)

Introduction

Description	HIV-1 protease is a retroviral aspartyl protease (retropepsin) that is essential for the life-cycle of HIV. HIV protease cleaves newly synthesized viral polyproteins at the appropriate places into functional protein products as mature protein components of an infectious HIV virion. The mutation of HIV protease's active site or inhibition of its activity disrupts HIV's ability to replicate and infect additional cells.
Synonyms	HIV-1 retropepsin; HIV-1 Protease (PR); cd05482

Product Information

Source	E. coli
Form	Liquid
EC Number	EC 3.4.23.-
Molecular Weight	38.4 kDa (1-99 aa + N-terminal GST and C-terminal Poly-his tags). It runs at ~31 kDa during SEC and SDS-PAGE analyses.
Purity	> 90%
Activity	> 1mU/mg

Storage and Shipping Information

Storage	Store at -80°C
Stability	Stable for at least 6 months as supplied. It can be further diluted to 0.5-1 mg/ml with 50 mM Sodium acetate, 100 mM NaCl, 5 mM DTT, 5 mM EDTA, pH 5.0 containing 10% glycerol, and stored at –80°C in aliquots. Do not keep the enzyme at 4°C or -20°C for extended time. Avoid repeated freezing and thawing cycles.