

## 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.