



Product Information Sheet

| | |
|---------------------|--|
| Product Name: | HIV-1 Protease, Recombinant |
| Catalog Number: | AS-72028-5 |
| Size: | 5 µg |
| Concentration: | 0.2 mg/ml |
| Activity (Unit/µg): | The activity unit is labeled on the vial. |
| Unit definition: | One unit of protease hydrolyzes 1 picomole of the DABCYL/EDANS substrate in SensoLyte™ 490 HIV Protease Assay Kits (AnaSpec Cat# 71127) per min at pH 4.7 at 25°C. |
| Storage: | Store at -80°C. Avoid multiple thaw-freeze cycles. |

Description:

The 10~12 kD aspartic protease of human immunodeficiency virus-1 (HIV-1), active only when it forms a homodimer, is required for the post-translational cleavage of the precursor polyproteins, Gag, Gag-Pol, Pol, and Nef¹. Since the cleavages of precursors are essential for the maturation of HIV infectious particles, this protease is one of the key targets for developing anti-AIDS drugs.

The recombinant HIV-1 protease (wild type, NCBI accession: NC_001802) contains the 99 amino acid sequence as reported by Schneider, *et al.*,² with 6x His-tag at its C-terminal. 100-200 ng of HIV-1 protease is sufficient for FRET-based activity assays (SensoLyte™ 490 and 520 HIV Protease Assay Kits, AnaSpec Cat#71127, 71147).

References:

1. Seelmeier, S. et al. *Proc. Natl. Acad. Sci. USA*. **85**, 6612 (1988).
2. Schneider, J. and SB. Kent, *Cell* **54**, 363 (1988).