

# Active HIV2 Protease Recombinant (GST-tagged)

<b>CATALOG #:</b>	7851-20	20 µg
	7851-100	100 µg
<b>ALTERNATIVE NAMES:</b>	HIV-2 retropepsin, HIV-2 Protease (PR <sub>2</sub> ), cd05482	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	5 mg/ml in 50 mM Sodium acetate, 100 mM NaCl, 5 mM DTT, 5 mM EDTA, pH 5.0 containing 10% glycerol	
<b>PURITY:</b>	≥ 85% by SDS-PAGE	
<b>MOL. WT.:</b>	38.3 kDa (1-99 aa + N-terminal GST and C-terminal Poly-his tags). It runs at ~31.5 kDa during SEC and SDS-PAGE analyses.	

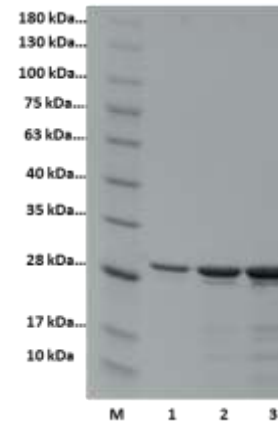
**STORAGE CONDITIONS:** Store at -80° C. Stable for at least 6 months as supplied. It can be further diluted to 0.5-1 mg/ml with 50 mM Sodium acetate, 100 mM NaCl, 5 mM DTT, 5 mM EDTA, pH 5.0 containing 10% glycerol, and stored at -80° C in aliquots. Do not keep the enzyme at 4° C or -20° C for extended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

**BACKGROUND:** HIV-2 Protease, an aspartyl protease (retropepsin), is essential for the life-cycle of HIV-2 sub-type virus. It is expressed in the infected cells as a part of Gag-Pol polyprotein from which it is auto-catalytically released after formation of an immature viral particle. The enzyme subsequently cleaves the other parts of viral polyproteins resulting in the maturation of the virus. In HIV-infected patients, the enzyme is subjected to intensive mutagenesis and mutants resistant to applied medicines are produced as a result of the selection pressure. The mutation of HIV protease's active site or inhibition of its activity disrupts HIV's ability to replicate and infect additional cells. HIV-2 has been found to be less pathogenic than HIV-1. The mechanism of HIV-2 is not clearly defined, nor the difference from HIV-1, however the transmission rate is much lower in HIV-2 than HIV-1.

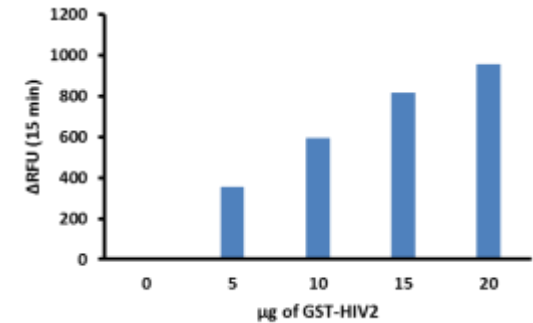
**ACTIVITY:** BioVision's Active HIV-2 Protease has been tested for its activity using HIV-2 Protease Activity Assay Kit (Fluorometric) (K845-100).

**APPLICATIONS:** Recombinant Active HIV-2 Protease can be used in inhibitor screening assays, activity studies, selectivity profiling, western blotting, ELISA, and numerous such applications.

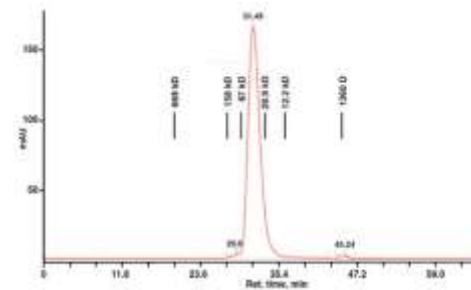
*For Research Use Only! Not to be used in humans*



SDS-PAGE (4-20%) of GST-HIV2 Protease:  
M: Protein Marker  
1: GST-HIV2 (5 µg)  
2: GST-HIV2 (10 µg)  
3: GST-HIV2 (15 µg)



Measurement of GST-HIV2 Protease activity using HIV-2 Protease Activity Assay Kit (Fluorometric) (K845-100)



SEC analysis of GST-HIV2 Protease using a Superdex 200 HR 10/30 column at 0.5 ml/min in 50 mM Tris and 0.25 M NaCl pH 7.5

## RELATED PRODUCTS:

- Active HIV1 Protease Recombinant (GST tagged) (**Cat. No. 7849-20, 100**)
- HIV-1 Protease Activity Assay Kit (Fluorometric) (**Cat. No. K825-100**)
- TEV Protease Activity Assay Kit (Fluorometric) (**Cat. No. K842-100**)
- TEV Protease Inhibitor Screening Kit (Fluorometric) (**Cat. No. K825-100**)
- EZCut™ TEV Protease, Recombinant (**Cat. No. 7847-1000, -10000**)
- TurboTEV Protease, Recombinant (**Cat. No. 9205-1**)
- Turbo3C (HRV3C) Protease, Recombinant (**Cat. No. 9206-1**)
- Enfuvirtide Acetate (**Cat. No. 2440-1**)
- GSK1349572 (**Cat. No. 2288-5, -25**)
- Lopinavir (**Cat. No. 2241-50, -250**)