

# Clean-Cut Protease,

Enzyme cleaves at a highly specific recognition site



## Catalog Numbers:

ABP-CE-CCP0500                      2500 units

## Description:

Clean-Cut™ protease is a viral 3C family protease cloned from a novel strain of HCV by Allele Biotech. The enzyme specifically recognizes a cleavage site of ELWSQ/X (X can be any small amino acid).

## Features:

- **Specific:** The enzyme cleaves at a highly specific recognition site. Unlike thrombin or factor X, Clean-Cut™ protease does not generate non-specific product bands in most cases, even after long incubation.
- **Convenient:** Clean-Cut™ protease functions well at both room temperature and 4°C, and does not require specific buffers. The digestion reaction can be simply carried out in PBS or Tris-based elution buffer, or even on beads.
- **Fast:** One hour reaction is sufficient for most common purposes.

## Quality Control:

Each batch of the enzyme has been tested for purity and activity.

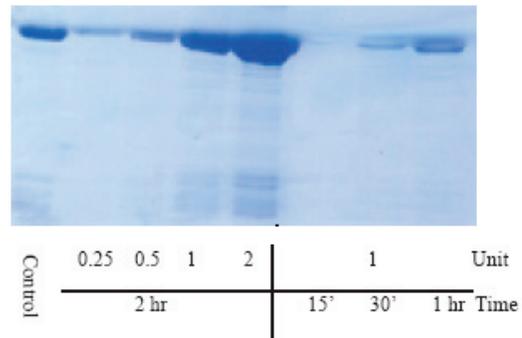
## Unit Definition:

Each unit is defined as the amount of enzyme necessary to cleave ~ 50 µg target protein in one hour at room temperature. Typical specific activity: 15-25 units/ µg of protease.

Storage Condition: -20°C  
Concentration: 10 units/uL

## Recommended Use:

Insert the coding sequence of this recognition site between your cDNA regions encoding two protein domains, e.g. a functional protein and a purification tag, during cloning. Produce fusion protein, followed by a room temperature protease reaction of 1-2 hours in virtually any buffer. If desired, the protease may be removed by Glutathione beads.



**Above Image:** CleanCut™ Protease digestion of a His-tag fusion protein of 25kD bound to Ni-beads. Units and incubation time are indicated. At the end of the reaction, the beads were washed once with PBS. A portion was run on 14% SDS-PAGE. "Control" lane was not treated; the bound protein was eluted by 500mM imidazol containing elution buffer.