

Datasheet for ABIN925024 **Caspase 1 Protein (CASP1)**



[Go to Product page](#)

Overview

Quantity:	25 U
Target:	Caspase 1 (CASP1)
Origin:	Human
Source:	Bacteria
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics: ~8000 units/mg. One unit cleaves 1 nmol of the caspase substrate YVAD-pNA per hour at 37°C in a reaction solution containing 50 mM HEPES, pH 7.2, 50 mM NaCl, 0.1% CHAPS, 10mM EDTA, 5% glycerol and 10 mM DTT.

Target Details

Target:	Caspase 1 (CASP1)
Alternative Name:	Caspase-1 (CASP1 Products)
Background:	Caspase-1 (also known as ICE, Interleulin-1- Converting Enzyme) is the prototypical member of the caspase family of cysteine proteases. Caspase-1 exists in cells as an inactive 45 kDa pro-enzyme. The pro-enzyme is matured by proteolysis to yield large (20 kDa) and small (10 kDa) subunits. The active enzyme is a heterotetramer consisting of two large and two small subunits. To date the mechanism of regulation of caspase-1 activation is complex and poorly understood. In THP-1 cells, a large proportion of the caspase-1 is present in the inactive pro-enzyme form.

Target Details

Molecular Weight: 45 kDa

Pathways: [Apoptosis](#), [Interferon-gamma Pathway](#), [Positive Regulation of Endopeptidase Activity](#),
[Inflammasome](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitute with PBS to 1 unit/ μ l.

Storage: -80 °C