Datasheet for ABIN925026

Caspase 2 Protein

1 Image

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Overview

Quantity:	25 U
Target:	Caspase 2 (CASP2)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	~10,000 units/mg. One unit cleaves 1nmole of the caspase substrate VDVAD-pNA per hour at 37°C in a reaction solution containing 50mM HEPES, pH 7.2, 50mM NaCl, 0.1% CHAPS, 10mM EDTA, 5% glycerol and 10mM DTT.

Target Details

Target:	Caspase 2 (CASP2)
Alternative Name:	Caspase-2 (CASP2 Products)
Background:	Caspase-2 (also known as Ich-1, Nedd-2) is a member of the interleukin-1 converting enzyme (ICE) family of cysteine proteases. Similar as other caspases, caspase-2 also exists in cells as an inactive proenzyme. During apoptosis, procaspase-2 is processed at aspartate residues by self-proteolysis and/or cleavage by upstream caspases. The processed form of caspase-2 consists of large (19 kDa) and small (12 kDa) subunits, which associate to form the active enzyme. The active recombinant human caspase-2 was expressed in E. coli. The expressed caspase-2 spontaneously undergoes auto-processing to yield the subunits characteristic of the

Target Details

	native enzyme.
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, Neurotrophin Signaling Pathway

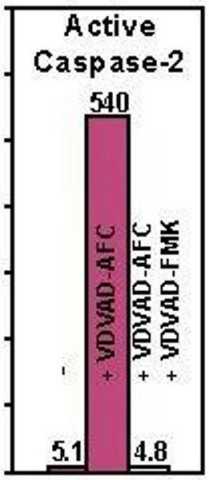
Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with PBS to 1 unit/µl.
Storage:	-80 °C

Images



Western Blotting

Image 1. Active human caspase was expressed in E. coli and purified. The activity of recombinant caspase-2 was determined by cleaving AFC conjugates of VDVAD. The cleavage activity was effectively inhibited by the corresponding peptide inhibitor as indicated.