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A Geno Technology, Inc. (USA) brand name

Active Recombinant Human Caspase-6

(Cat. # RCH-006)



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INTRODUCTION

Caspase-6 is a member of the interleukin-1 β converting enzyme (ICE) family of cysteine proteases and exists in cells as an inactive pro-enzyme. During apoptosis procaspase-6 is processed at aspartate residues by self-proteolysis and/or cleavage by another caspase. The processed form of caspase-6 consists of large (18kD) and small (11kD) subunits, which associate to form the active enzyme. The active caspase-6 has been shown involving in the proteolysis of poly (ADP-ribose) polymerase (PARP), an enzyme that is involved in DNA repair and genomic maintenance. The active recombinant caspase-6 cleaves the substrates consisting of consensus sequence VEID (e.g., VEID-AFC and VEID- ρ NA).

ITEM(S) SUPPLIED

Cat. #	Description	Size
RCH-006	Active Recombinant Human Caspase-6 (Lyophilized)	25 Units

STORAGE CONDITIONS

It is shipped in blue ice. The lyophilized caspase-6 is stable for 1 year at -70°C. Following reconstitution in PBS, the enzyme should be aliquoted and stored at -70°C.

NOTE: Avoid multiple freeze/thaw cycles as activity might decrease.

UNIT DEFINITION

One unit of the recombinant caspase-6 is the enzyme activity that cleaves 1 nmol of the caspase substrate VEID- ρ NA (ρ NA: ρ nitroaniline) 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.

SPECIFIC ACTIVITY:

13,000 units /mg

PREPARATION BEFORE USE

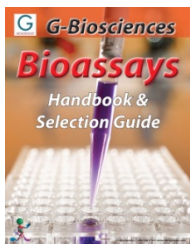
Reconstitute the supplied Caspase-6 to 1 unit per μ l in PBS.

APPLICATIONS AND USAGE

The active recombinant human caspase-6 was expressed in *E. coli*. The expressed caspase-6 spontaneously undergoes autoprocessing to yield the subunits associated to form the active enzyme. In combination with caspase activity assays, the active recombinant caspase-6 is useful in screening caspase inhibitors, studying enzyme regulation and determining specificity of caspase substrates. It also can be used as a positive control in caspase activity assays. We recommend using 1 unit per assay for analyzing caspase activity. For a complete caspase-6 assay protocol, please refer to our CasPASE™-Apoptosis Assay Kit (Cat # 786-200 to 786-206).

RELATED PRODUCTS

Download our Bioassays Handbook.



<http://info.gbiosciences.com/complete-bioassay-handbook>

For other related products, visit our website at www.GBiosciences.com or contact us.

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