



069PR

G-Biosciences ♦ 1-800-628-7730 ♦ 1-314-991-6034 ♦ technical@GBiosciences.com

A Geno Technology, Inc. (USA) brand name

Active Recombinant Human Caspase-8

(Cat. # RCH-008)



think proteins! think G-Biosciences www.GBiosciences.com

INTRODUCTION

Caspase-8 is a member of the interleukin-1 β converting enzyme (ICE) family of cysteine proteases. Like other caspases, caspase-8 also exists in cells as an inactive pro-enzyme. During apoptosis procaspase-8 is processed at aspartate residues by self proteolysis and/or cleavage by another caspase. The processed form consists of large and small subunits, which associate to form the active caspase-8 enzyme.

ITEM(S) SUPPLIED

Cat. #	Description	Size
RCH-008	Active Recombinant Human Caspase-8 (Lyophilized)	25 Units

STORAGE CONDITIONS

It is shipped in blue ice. The lyophilized caspase-8 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-8 is the enzyme activity that cleaves 1 nmol of the caspase substrate IETD-pNA (pNA: pnitroanaline) 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:

5,000 units /mg

PREPARATION BEFORE USE

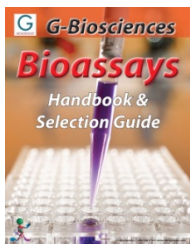
Reconstitute the supplied Caspase-8 to 1 unit per μ l in PBS.

APPLICATIONS AND USAGE

The active recombinant human caspase-8 was expressed in *E. coli*. The active caspase-8 effectively cleaves caspase8 substrates (e.g., IETD-AFC, LETD-AFC or IETD-pNA). Active caspase-8 enzyme is useful in screening caspase inhibitors, studying enzyme regulation and kinetics and determining target substrate. It also can be used a positive control in caspase-8 activity assays. We recommend using 1 unit per assay for analyzing caspase activity. For a complete caspase-8 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.

Last saved: 2/27/2013 CMH



www.GBiosciences.com