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Active Recombinant Human Caspase-8

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

Catalog #	Description	Size
RCH-008	Active Recombinant Human Caspase-8 (Lyophilized)	25 Units x 1 vial

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), 50 mM NaCI, 0.1% CHAPS, 10mM EDTA, 5% Glycerol, and 10mM DTT.

Specific Activity: 5,000 units/mg.

PREPARATION BEFORE USE

Reconstitute the supplied Active Recombinant Casapse-8 to 1 unit per µl 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.

RELATED PRODUCTS:

1. <u>CasPASETM-Apoptosis Assay Kit</u> (Cat # 786-200 to 786-206)

The assay kit provides a simple method for assaying various caspases activity. For details, visit our web site at www.GBiosciences.com.

2. CasPASE Substrates and Inhibitors

Ready to use caspase substrates and inhibitors are provided individually as well as in sets. For details, visit our web site at www.GBiosciences.com or contact us.

NOTE: For other related products, visit our web site at www.GBiosciences.com or contact us.

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