

Product Information

Active Human Caspases Group III

I. Kit Contents:

Description	Amount	Cap Color	Part Number
Recombinant Caspase-6	25 units	Violet	K2063-C-1
Recombinant Caspase-8	25 units	Green	K2063-C-2
Recombinant Caspase-9	25 units	Blue	K2063-C-3
Recombinant Caspase-10	25 units	Amber	K2063-C-4

II. Introduction:

Caspases are groups of enzymes that involved apoptosis, necrosis and inflammation. These groups can be seperated in to three major classes based on their substrate specificities : Group I (Caspase-1,-4,-5), Group II (Caspase-2,-3,-7), and Group III (Caspase-6,-8,-9,-10). Group I caspases are implicated in the inflammatory cytokines production. Group II are effectors and Group III are upstream activators that mediates apoptosis. The Active Human Caspases Group III are recombinant caspases that expressed in E.coli and routinely tested for their ability to enzymatically cleave the substrate VEID-pNA (for Caspase-6), IETD-pNA (for Caspase-8 & -10) and LEHD-pNA (for Caspase-9), respectively.

III. Unit Definition:

One unit of the active recombinant Caspase-6, -8, -9 & -10 is the enzyme activity that cleaves 1 nmol of the caspase substrate VEID-pNA (for Caspase-6), IETD-pNA (for Caspase-8 & -10), and LEHD-pNA (for Caspase-9), respectively, per hour at 37°C in a reaction solution containing 50 mM Hepes, pH 7.2, 50 mM NaCl, 0.1 % Chaps, 10 mM EDTA, 5 % Glycerol, and 10 mM DTT.

IV. Applications and Usage:

Active recombinant caspases are useful for screening caspase inhibitors, studying enzyme kinetics and regulation, determining target substrates, and as positive controls in caspase activity assays. We recommend using 1 unit per assay for analyzing caspase activity.

For a complete caspase activity assay protocol, please refer to ApexBio's Fluorometric or Colorimetric Caspase Assay Kits.

V. Storage Conditions:

The lyophilized recombinant caspases are stable for 1 year at -70°C. Following reconstitution in PBS, these enzymes should be aliquoted and stored at -70°C. Avoid multiple freeze/thaw cycles as activity might decrease.

For research use only! Not to be used in humans.

Our promise



If the product does not perform as described on this datasheet, we will offer a refund or replacement. For more details, please visit <http://www.apexbt.com/> or contact our technical team.

Tel: +1-(832)696-8203

Fax: +1-832-641-3177

Email: sales@apexbt.com