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HUMAN CASPASE-9 (ACTIVE) RECOMBINANT PROTEIN

CATALOG NUMBER: CC120

LOT NUMBER:

QUANTITY: 25 units*

*Where one unit of the recombinant caspase-9 is the enzyme activity that cleaves 1 nmol of the caspase substrate LEHD-pNA (pNA: pnitroanaline) per hour at 37°C at saturated substrate concentrations.

PREPARATION: Partially purified recombinant caspase 9 with a full length HIS-6-tag. Approximately 10-20% caspase 9 protein. The remainder is E.Coli proteins. Approximately 0.8-2 µg total protein/U of activity; E.Coli proteins have no reactivity.

SPECIFICITY: Caspase-9 (also known as Ice-Lap6 and Mch6) is a member of the interleukin-1β converting enzyme (ICE) family of cysteine proteases. Similar as other caspases, caspase-9 also exists in cells as an inactive proenzyme. During the initiation of apoptosis the proenzyme is processed at aspartate residues to form active caspase-9. As one of the initiator caspases, active caspase-9 functions to trigger the activation of downstream effector caspases and further lead to disassembly of cell structures.

The partially purified* active recombinant human caspase-9 with full-length HIS-6 tag was expressed in *E. coli*. The expressed caspase-9 spontaneously undergoes autoprocessing to yield the subunits characteristic of the native enzyme. In combination with caspase-9 activity assays, the active recombinant caspase-9 is useful in biological screening of caspase inhibitors. The recombinant enzyme can also be used as a positive control in caspase-9 assays. Caspase 9 is known to have strong reactivity with other sequence peptides, especially DEVD-pNA.

*10-20% caspase-9 protein by gel analysis; also contains *E. coli* proteins. Approximately, 0.8-2 µg total protein / unit of activity. GenBank # U60521.

APPLICATIONS: Enzyme is prepared as an activity standard only, any other application not tested.

PRESENTATION: Lyophilized. Reconstitute with 25 µl of PBS + 15% glycerol.

STORAGE/HANDLING: Maintain at -70°C in undiluted aliquots for 3-6 months. Avoid repeated freeze/thaw cycles.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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