

Caspase-7 from Human, Recombinant

Cat. No. NATE-0815

Lot. No. (See product label)

Introduction

Description

Caspase-7 is a member of the caspase (cysteine aspartate protease) family of proteins, and has been shown to be an executioner protein of apoptosis. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes that undergo proteolytic processing by upstream caspases (caspase-8, -9) at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme in the form of a heterotetramer. The precursor of this caspase is cleaved by caspase 3, caspase 10, and caspase 9. It is activated upon cell death stimuli and induces apoptosis. Alternative splicing results in four transcript variants, encoding three distinct isoforms.

Applications

Used to screen caspase inhibitors, study enzyme regulation, determine caspase substrate specificity, or as positive control in caspase activity assays.

Synonyms

CASP7; CASP-7; CMH-1; ICE-LAP3; LICE2; MCH3; Caspase-7

Product Information

Species

Human

Source

E. coli

Appearance

Lyophilized

EC Number

EC 3.4.22.-

Purity

90% (SDS-PAGE)

Activity

~25,000U/mg protein

Usage and Packaging

Preparation Instructions

After reconstitution, prepare aliquots and store at -80°C

Storage and Shipping Information

Storage

-80°C