

Product datasheet

Recombinant human Caspase-4 protein (Active) ab51994

Description

Product name	Recombinant human Caspase-4 protein (Active)
Biological activity	One unit of the recombinant caspase-4 is the enzyme activity that cleaves 1 nmol of the caspase substrate WEHD-pNA (pNA: p-nitroaniline) 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.
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Accession	P49662
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Tags	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab51994** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
Form	Lyophilized
Additional notes	This protein is a heterotetramer consisting of two large and two small subunits. Active Caspase 4 is useful in studying enzyme regulation, determining target substrates, screening caspase inhibitors, or as a positive control in caspase activity assays. 5000 units/mg.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Constituents: 15% Glycerol (glycerin, glycerine), PBS This product is an active protein and may elicit a biological response in vivo, handle with caution.
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Reconstitution Reconstitute to 1 unit per μl in PBS containing 15% glycerol. Aliquot and store immediately at -80°C .

General Info

Function Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves caspase-1.

Tissue specificity Widely expressed, with highest levels in spleen and lung. Moderate expression in heart and liver, low expression in skeletal muscle, kidney and testis. Not found in the brain.

Sequence similarities Belongs to the peptidase C14A family.
Contains 1 CARD domain.

Post-translational modifications The two subunits are derived from the precursor sequence by an autocatalytic mechanism or by cleavage by Caspase-8.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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