



PRODUCT DATA SHEET

Product: Caspase-9 Enzyme (human, recombinant)

Cat. No: BC-124 (25 U)
BC-125 (100 U)

Description: Active enzyme was expressed in *E. coli*. The expressed caspase-9 spontaneously undergoes autoprocessing to yield the subunits characteristic of the native enzyme. One unit of rhCaspase-9 is the enzyme activity that cleaves 1 nmol of substrate Ac-LEHD-pNA per hour at 37°C at standard substrate concentrations. In combination with caspase-9 activity assays, the active rhCaspase-9 is useful in screening caspase inhibitors for pharmaceutical applications. The enzyme is also useful in studying enzyme regulation, determining target substrates and as a positive control in caspase-9 assays.

Unit Definition:

One unit is the enzyme activity that cleaves 1 nmol of the caspase substrate LEHD-pNA 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: ≥90% by SDS-PAGE

Format: Lyophilized powder.

Specific Activity: 400 units/mg.

Storage and Stability:

Stable at -80°C for 1 year. Following reconstitution in PBS, the enzyme should be aliquoted and immediately stored at -80°C. Avoid multiple freeze/thaw cycles as activity might decrease.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.