

Caspase-3 Assay Kit | CASP3 assay kit

Caspase-3 Assay Kit (Colorimetric)

CATALOG #
AAA31522

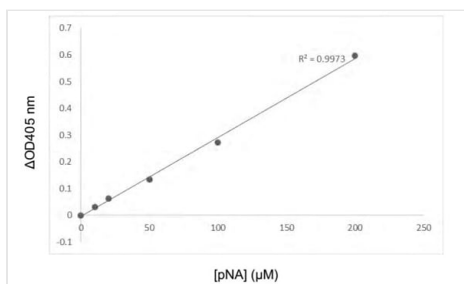
PRODUCT SYNONYMS

Caspase-3; Caspase-3 Assay Kit (Colorimetric); CASP3 assay kit

PRODUCT SPECIFICATIONS

Sequence Length	283
Samples	Animal Tissues, Cells
Application Notes	Caspase 3 Assay Kit (Colorimetric) is based on the hydrolysis of the peptide substrate Ac-DEVD-pNA (acetyl-Asp-Glu-Val-Asp p-nitroanilide) by caspase 3, resulting in the release of the p-nitroaniline (pNA), which can be quantified using a spectrophotometer or a microtiter plate reader at 405 nm.
Preparation and Storage	Stable for at least 12 months at recommended temperature from date of shipment.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CASP3 assay kit

Principle of the Assay: Caspase family of cysteine proteases has been shown to play a key role in apoptosis. Mammalian caspases can be subdivided into three functional groups: initiator caspases (Caspase 2, 8, 9 and 10), executioner caspases (Caspase-3, 6 and 7), and inflammatory caspases (Caspase 1, 4, 5, 11 and 12). Caspase-3, also known as Yama, CPP32, and apopain, cleaves its substrates at the carboxyl terminus of aspartate residues. Active Caspase-3 consists of 2 sets of homodimers (17 and 12 kDa) that are derived from two precursor Caspase-3 polypeptides and has two active sites. Caspase-3, together with Caspases 8 and 9, is situated at pivotal junctions in apoptotic pathways. Caspase-3 Assay Kit (Colorimetric) is based on on Caspase-3 can catalyze the substrate Ac-DEVD-pNA (acetyl-Asp-Glu-Val-Asp p-nitroanilide) to produce yellow nitroaniline (pNA). The pNA is strongly absorbed around 405 nm, so that the Caspase-3 activity can be measured by measuring the absorbance.

Product Categories/Family for CASP3 assay kit

[Cell Status Detection](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	45382613
NCBI GeneID	395476

NCBI GenBank Nucleotide #	NP_990056.1
NCBI Official Full Name	caspase-3
NCBI Official Synonym Full Names	caspase 3
NCBI Official Symbol	CASP3
NCBI Official Synonym Symbols	caspase-3
NCBI Protein Information	caspase-3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/caspase-3/31522>