

## Data Sheet

### Caspase 3

Human, recombinant, C-terminal His-tag

**Catalog #:** 80500

**Lot #:** 130226-G      **Conc.:** 0.70 mg/ml

**Formulated in:** 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween 20, 20% glycerol and 3 mM DTT.

**Stability:** >6 months at -80°C

**Reference(s):**

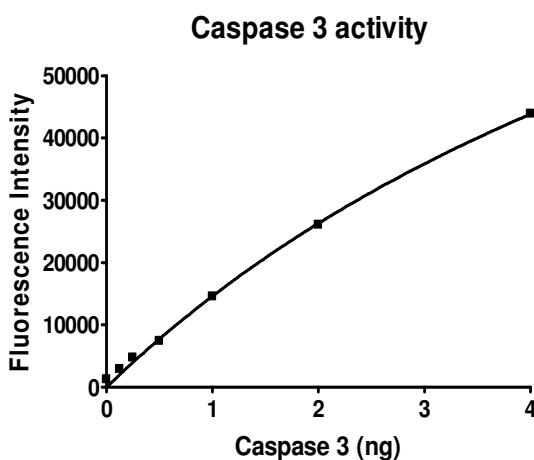
1. Lee, D., *et al.*, *J Biol Chem.* 2000 May 26;**275(21)**:16007-14.
2. Suzuki, Y., *et al.*, *Proc Natl Acad Sci USA.* 2001 Jul 17;**98(15)**:866-7.

**Description:** Human caspase 3 (CASP3), also known as CPP32 and apopain, amino-acids 1 – 277 (end) (GenBank Accession No. NM\_004346, var alpha) with C-terminal His-tag, expressed in an *E. coli* expression system. Procaspase-3 is self-cleaved into two subunits, MW = 17 kDa and 13 kDa, to form the active heterotetrameric complex.

**Specific Activity:** 6,784 pmol/min/μg  
 Assay conditions: 10 mM HEPES, pH 7.4, 10 mM EDTA, 0.05% Chaps, 5 mM DTT, and 20 μM Caspase 3 substrate. Incubate for 30 minutes at room temperature. Fluorescence intensity is measured at exc380/em500.

**Application:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

### Quality Assurance



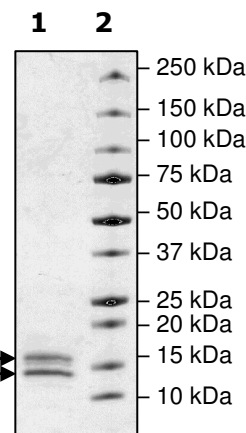
**4-20% SDS-PAGE  
 Coomassie staining**

**Lane 1:**  
 2 μg Caspase 3

**Lane 2:**  
 Protein Markers

**MW:** 13 & 17 kDa

**Purity:** ≥99%



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**Sequence:**

MENTENSVDSKSIKNLEPKIIHGSESMDSGISLDNSYKMDYPEMGLCIIINKNFHKSTG  
MTRSRTDVAANLRETFRNLYEVRNKNDLTREEIVELMRDVSKEDHSKRSSFVVCV  
LLSHGEEGIIIFGTNGPVDLKKITNFFRGDRCSLTGKPKLFIIQACRGTELDGCIETDSG  
VDDDMACHKIPVEADFLYAYSTAPGYYSWRNSKDGSWFIQSLCAMLKQYADKLEFM  
HILTRVNRKVATEFESFSFDATFHAKKQIPCIVSMLTKELYFYHHHHHH

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