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Data Sheet

Caspase-9

Human, recombinant, C-terminal His-tag
Catalog #: w90126
Lot #: 130426E100 Conc.: 0.27 mg/ml

Formulated in: 50mM Tris pH8, 110mM NaCl, 2.2mM KCl, 20% glycerol, 3mM DTT, 80mM Imidazole.

Stability: >6 months at -80°C

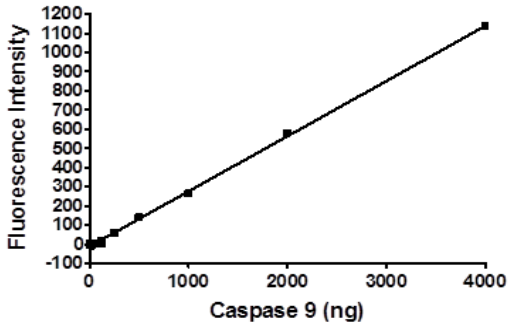
References:
1. Guerrero AD., *et al.,* J *Clin Cell Immunol.*9;**3(3)** (2012).

2. Luo W., et al., Int J Biol Macromol. *S0141*-**8130(13)**00222-5. (2013)

Description: Human Caspase 9 (CASP9), GenBank Accession No. NM_001229), amino-acids 1 - 416 (end), with C-terminal His-tag, MW=35 &10 kDa, expressed in an *E. coli* cell expression system. Procaspase-9 is autocleaved between the prodomain and large protease subunit (p35). The cleavage product, contains both the large (p35) and small (p10 [His-tag]) protease subunits.
Specific Activity: 0.11 pmol/min/µg.
Assay conditions: 50 mM HEPES, pH 7.2, 50 mM NaCl, 10 mM EDTA, 0.1% Chaps, 5% glycerol, 10 mM DTT, and 10 µM Caspase 9 substrate. Incubate for 30 minutes at room temperature. Fluorescence intensity is measured at exc380/em505 nm.
Application:
Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance

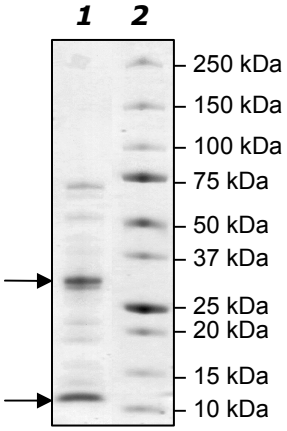
Caspase 9 Activity



4-20% SDS-PAGE
Coomassie staining

Lane 1:
2.5 µg Caspase 9
Lane 2:
Protein Marker

MW: 35 & 10 kDa
Purity: ≥56%



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Sequence:

MDEADRRLLRRCRLRLVEELQVDQLWDALLSRELFRPHMIEDIQRAGSGSRRDQ
ARQLIIDLETRGSQALPLFISCLEDTGQDMLASFLRTNRQAAKLSKPTLENLTPVV
LRPEIRKPEVLRPETPRPVDIGSGGFGDVGALESLRGNADLAYILSMEPCGHCLIIN
NVNFCRESGLRTRTGSNIDCEKLRRRFSSLHFMVEVKGDLTAKKMVLALLELAQ
QDHGALDCCVVVILSHGCQASHLQFPGAVYGTDGCPVSVEKIVNIFNGTSCPSLG
GKPKLFFIQACGGEQKDHGFEVASTSPEDESPGSNPEPDATPFQEGLRTFDQLDAI
SSLPTPSDIFVSYSTFPGFVSWRDPKSGSWYVETLDDIFEQWAHSEDLQSLLLRVA
NAVSVKGIYKQMPGCFNFLRKKLFFKTSHHHHHH