

SignalSilence® Caspase-3 siRNA I (Mouse Specific)

✓ 10 µM in 300 µl
(100 transfections)



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For Research Use Only. Not For Use In Diagnostic Procedures.

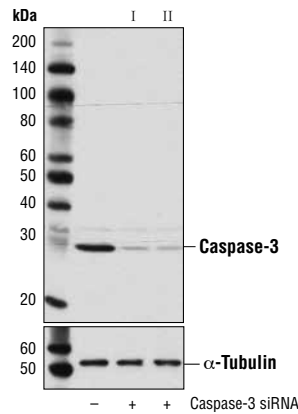
Species Cross-Reactivity: M

Description: SignalSilence® Caspase-3 siRNA I (Mouse Specific) from Cell Signaling Technology (CST) allows the researcher to specifically inhibit Caspase-3 expression using RNA interference, a method whereby gene expression can be selectively silenced through the delivery of double stranded RNA molecules into the cell. All SignalSilence® siRNA products from CST are rigorously tested in-house and have been shown to reduce target protein expression by western analysis.

Background: Caspase-3 (CPP-32, Apoptain, Yama, SCA-1) is a critical executioner of apoptosis, as it is either partially or totally responsible for the proteolytic cleavage of many key proteins such as the nuclear enzyme poly (ADP-ribose) polymerase (PARP) (1). Activation of caspase-3 requires proteolytic processing of its inactive zymogen into activated p17 and p12 fragments. Cleavage of caspase-3 requires aspartic acid at the P1 position (2).

Directions for Use: CCST recommends transfection with 100 nM SignalSilence® Caspase-3 siRNA I (Mouse Specific) 48 to 72 hours prior to cell lysis. For transfection procedure, follow protocol provided by the transfection reagent manufacturer. Please feel free to contact CST with any questions on use.

Quality Control: Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.



Western blot analysis of extracts from NIH/3T3 cells, transfected with 100 nM SignalSilence® Control siRNA (Unconjugated) #6568 (-), SignalSilence® Caspase-3 siRNA I (Mouse Specific) (+), or SignalSilence® Caspase-3 siRNA II (Mouse Specific) #6501 (+), using Caspase-3 (8G10) Rabbit mAb #9665 (upper) or α-Tubulin (11H10) Rabbit mAb #2125 (lower). The Caspase-3 (8G10) Rabbit mAb confirms silencing of Caspase-3 expression, while the α-Tubulin (11H10) Rabbit mAb is used as a loading control.

Entrez-Gene ID #12367
Swiss-Prot Acc. #P70677

Storage: Caspase-3 siRNA I (Mouse Specific) is supplied in RNase-free water. Aliquot and store at -20°C.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References:

- (1) Fernandes-Alnemri, T. et al. (1994) *J. Biol. Chem.* 269, 30761-30764.
- (2) Nicholson, D. W. et al. (1995) *Nature* 376, 37-43.