Product Data Sheet

Product Name: Proapoptotic Peptide, (klaklak)_2

Catalog Number: AS-62199 (0.5 mg) Lot Number: See label on vial

klaklakklaklaklak-NH2 (1-letter code)

Molecular Weight: 1523.0

Peptide Purity: >95%

Appearance: Lyophilized white powder

Peptide Reconstitution: Proapoptotic peptide is freely soluble in water.

Storage: Proapoptotic peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at –20°C or lower. Reconstituted peptide can be aliquoted and stored at –20°C or lower.

Additional Information: Listed below are relevant information that may provide a guideline on how to use this product. End users will have to adapt to their own specific applications.

The synthetic peptides CGSPGWVRC, CGSPGWVRC-GG-(KLAKLAK)_2, and d(KLAKLAK)_2 were obtained commercially (AnaSpec; San Jose, CA) to our specifications. In some binding experiments, as indicated, a synthetic cyclic peptide (sequence CARAC) served as an unrelated negative control. In Vitro Cell Viability and Cell Apoptosis Assays—Cells (2 x 10^4 cells/well) were seeded in 96-well plates for 24 h in 10% FBS in DMEM, incubated with increasing concentrations of the peptides CGSPGWVRC-GG-(KLAKLAK)_2 or CGSPGWVRC and d(KLAKLAK)_2 in 80 µl of 1% FBS in DMEM for 6 hours at 37 °C. After 6 h, cell viability was measured with a cell proliferation detection reagent according to the manufacturer's instructions (WST-1; Roche Applied Science)- Giordano, R. et al. J Biol Chem 283, 29447 (2008).

Soluble CGRRAGGSC-GG-(KLAKLAK)_2, CGRRAGGSC, and d(KLAKLAK)_2 peptides, and the unrelated control peptide CKGGRAKDC-GG-(KLAKLAK)_2, were synthesized to our specifications by AnaSpec (San Jose, CA). NCaP, MDA-PCa-2b cells (each at 3 x 10^4/well), and EF43.fgf-4 cells (7) at 2 x 10^4/well were seeded in triplicates and incubated in 96-well plates (Becton Dickinson, Franklin Lakes, NJ) for 24–72 h at 37°C, with serially increasing concentrations (10–100 µM) of CGRRAGGSC-GG-(KLAKLAK)_2 peptide, CGRRAGGSC peptide alone, d(KLAKLAK)_2 peptide alone, or an equimolar mixture of the unconjugated peptides CGRRAGGSC and d(KLAKLAK)_2. LNCaP cells were also exposed in parallel to increasing concentrations (20–100 µM) of CGRRAGGSC-GG-(KLAKLAK)_2 and unrelated control peptides CKGGRAKDC-GG-(KLAKLAK)_2 or CGSPGWVRC-GG-(KLAKLAK)_2, under the same conditions—Zurita, A. et al. Cancer Res 64, 435 (2004).
Published Citations:


Related Products:

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<tr>
<th>Name</th>
<th>Cat #</th>
<th>Size</th>
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<td>AS-62206</td>
<td>1 mg</td>
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<tr>
<td>5-FAM-klaklakklaklak-NH2</td>
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