AP16 RGD (Arg-Gly-Asp) Peptide, 5 mg

Description

RGD peptide is a synthetic peptide containing the RGD cell attachment sequence found in fibronectin, vitronectin and many other matrix and serum proteins. The RGD motif is present at the N-terminal end of the peptide, allowing for optimal cell attachment via integrin receptors.

Peptide Sequence

Ac-Gly-D-**Arg-Gly-Asp**-Ile-Pro-Ala-Ser-Ser-Lys-GlyGly-Gly-Gly-Ser-D-Arg-Leu-Leu-Leu-Leu-Leu-Leu-D-Arg-NH_2

Specifications

Counter Ion	Acetate
Purity	> 95% confirmed by RP-HPLC
Endotoxin Level	< 1.0 EU/ml
Storage	4°C
Identity Confirmed by Amino Acid Analysis	Characteristic
Identity Confirmed by Mass Spectrometry	Characteristic
Peptide Content Confirmed by Nitrogen Analysis	Characteristic

Coating Procedure

Note: Use these recommendations as guidelines to determine the optimal coating conditions for your culture system. Two options are provided:

Procedure A

1. Remove cap and add 5 ml of serum-free medium or PBS to the bottle.
2. Replace cap and vortex contents vigorously. Ensure that the RGD peptide is completely solubilized. The solution will remain slightly hazy.
3. Transfer desired volume of solution from the bottle to a dilution vessel. Dilute to desired concentration using serum-free medium or PBS. A typical working concentration may range from 0.1 to 10 µg/ml.
4. Sterile filter solution through a 0.22 micron button filter.
5. Aseptically add appropriate amount of diluted, sterile material to culture surface.
6. Incubate at room temperature or 37°C, covered, for 1 - 2 hours.
7. After incubation, aspirate remaining material.
8. Rinse plates carefully with dH2O - avoid scratching bottom surface of plates.
9. Plates are ready for use. They may also be stored at 2 - 10°C damp or air dried if sterility is maintained.
10. Store remaining solubilized RGD peptide at 2 - 10°C.

Additional note: Include divalent cations (Calcium, Magnesium, or Manganese) in cell attachment solution to obtain optimum cell binding.

Procedure B

1. Remove cap and add 5 ml of sterile 70% ethanol.
2. Replace cap and vortex contents. Ensure that the RGD peptide is completely solubilized.
3. Transfer desired volume of solution from the bottle to a dilution vessel. Dilute to the desired concentration using 70% ethanol. Concentrations from 0.1 to 10 µg/ml should be tested.
4. Add appropriate amount of diluted material to culture surface.
5. Leave the coated container, uncovered, in a laminar flow hood until the wells are dry.
6. Rinse plates carefully with dH2O – avoid scratching bottom surface of plates.
7. Plates are ready for use.
8. Store remaining solubilized RGD peptide at 2 to 10°C.