**Product Data Sheet**

**GRGDSPK**

Cat. No.: HY-P0322  
CAS No.: 111119-28-9  
Molecular Formula: $C_{28}H_{49}N_{11}O_{11}$  
Molecular Weight: 715.76  
Sequence: Gly-Arg-Gly-Asp-Ser-Pro-Lys  
Sequence Shortening: GRGDSPK  
Target: Others  
Pathway: Others  
Storage: Please store the product under the recommended conditions in the COA.

**BIOLOGICAL ACTIVITY**

**Description**  
GRGDSPK is an inhibitory peptide for RGD-mediated adhesion between integrin and extracellular matrix molecules.

**In Vitro**  
GRGDSPK inhibits the adhesion of Rat PDL cells$^{[1]}$. RGD-containing (GRGDSPK, 1.5 mM, 1.0 mM, and 0.5 mM) and RGD-modified peptides impair the ability of sperm to fertilize bovine oocytes, illustrated by a reduction in cleavage in a dose-dependent manner$^{[2]}$.

**PROTOCOL**

**Cell Assay $^{[1]}$**  
Proliferation assays are carried out in 48-well cell culture dishes coated with OCP or HL. In proliferation assays, $7.25 \times 10^5$ cells in 0.5 mL of culture medium are seeded in a 48-well dish. Culture medium is changed every 3 days. After 1, 6, 12, and 18 days of culture, plates are washed thrice with PBS to remove unattached cells, and attached cells are collected by trypsinization. The number of cells is counted using a hemocytometer. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**REFERENCES**


**Caution:** Product has not been fully validated for medical applications. For research use only.

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