# Data Sheet (Cat.No.T39655)

TargetMol

## Arg-Gly-Asp-Cys TFA

### Chemical Properties

CAS No. : 2171504-22-4

Formula: C19H29F6N7O11S

Molecular Weight: 677.53

Storage: Keep away from moisture,
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | Arg-Gly-Asp-Cys TFA, as a recognition motif for fibronectin and cell adhesion molecules, inhibits platelet aggregation and fibrinogen binding. |
| Targets(IC50) | Integrin |
| In vitro | Method: Human dermal fibroblasts (HDF) were treated with Arg-Gly-Asp-Cys-functionalized chitosan (0.25, 0.5, 1 mg/mL) for 2, 4, and 7 days, and cell viability was assessed using the WST-1 assay.<br>Result: After 7 days of treatment with Arg-Gly-Asp-Cys-functionalized chitosan at concentrations of 0.25 and 0.5 mg/mL, HDF viability was significantly higher than that of the control group ($p \leq 0.0001$ and $p \leq 0.01$), with cell viability exceeding 140%, indicating that the Arg-Gly-Asp-Cys peptide promotes fibroblast proliferation [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 1.4759 mL | 7.3797 mL | 14.7595 mL |
| 5 mM | 0.2952 mL | 1.4759 mL | 2.9519 mL |
| 10 mM | 0.1476 mL | 0.738 mL | 1.4759 mL |
| 50 mM | 0.0295 mL | 0.1476 mL | 0.2952 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Patrulea V, et, al. Peptide-decorated chitosan derivatives enhance fibroblast adhesion and proliferation in wound healing. Carbohydr Polym. 2016 May 20;142:114-23.

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