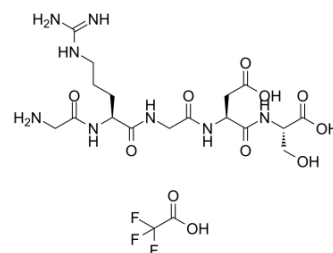


Gly-Arg-Gly-Asp-Ser (TFA)

| | |
|----------------------|---|
| Cat. No.: | HY-P0295A |
| Molecular Formula: | C ₁₉ H ₃₁ F ₃ N ₈ O ₁₁ |
| Molecular Weight: | 604.49 |
| Sequence: | Gly-Arg-Gly-Asp-Ser |
| Sequence Shortening: | GRGDS |
| Target: | Integrin |
| Pathway: | Cytoskeleton |
| Storage: | Please store the product under the recommended conditions in the COA. |



BIOLOGICAL ACTIVITY

| | |
|---------------------------|--|
| Description | Gly-Arg-Gly-Asp-Ser (TFA) is a pentapeptide that forms the cell-binding domain of a glycoprotein, osteopontin ^[1] . Gly-Arg-Gly-Asp-Ser binds to integrin receptors αβ3 and αβ5 with estimated IC ₅₀ of ~5 and ~6.5 μM ^[2] . |
| IC ₅₀ & Target | IC ₅₀ : 5 μM (αβ3), 6.5 μM (αβ5) ^[2] |

REFERENCES

- [1]. Kim GH, et al. Evaluation of Osteoblast-Like Cell Viability and Differentiation on the Gly-Arg-Gly-Asp-Ser Peptide Immobilized Titanium Dioxide Nanotube via Chemical Grafting. *J Nanosci Nanotechnol*. 2016 Feb;16(2):1396-9.
- [2]. Bernhagen D, et al. High-Affinity RGD-Knottin Peptide as a New Tool for Rapid Evaluation of the Binding Strength of Unlabeled RGD-Peptides to αβ3, αβ5, and α5β1 Integrin Receptors. *Anal Chem*. 2017 Jun 6;89(11):5991-5997.

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

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