



## Product Data Sheet

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|                   |  |                               |
|-------------------|--|-------------------------------|
| Product Name:     | Cyclo (-GRGDSP)  |                               |
| Catalog Number:   | AS-61110 (1 mg)<br>AS-61110-5 (5 mg)   | Lot Number: See label on vial |
| Sequence:         | Cyclo(-Gly-Arg-Gly-Asp-Ser-Pro) (3-letter code)<br>GRGDSP, N to C cyclized (1-letter code) |                               |
| Molecular Weight: | 569.6  |                               |
| Peptide Purity:   | >95%   |                               |
| Appearance:       | Lyophilized white powder   |                               |

**Peptide Reconstitution:** Cyclo (-GRGDSP) peptide is freely soluble in water.

**Storage:** Cyclo (-GRGDSP) peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at  $-20^{\circ}\text{C}$  or lower. Reconstituted peptide can be aliquoted and stored at  $-20^{\circ}\text{C}$  or lower.

**Description:** This cyclic peptide is a potent vasodilator. It is more powerful than the linear GRGDSP (Cat# 22945, 22946) in changing the vascular tone of arterioles isolated from rat cremaster muscle. Ref: Mogford, JE. et al. *Circulation Res.* **79**, 821 (1996).

**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.

To block integrin binding in the microvessel constructs, 10 mM cyclo-GRGDSP peptide (AnaSpec, San Jose, CA) was added to the construct before polymerization. Vessel constructs were then polymerized and imaged on *day 0* and *day 1* and compared with untreated control constructs. [Kirkpatrick, ND. et al. \*Am. J. Physiol. Heart Circ. Physiol.\* \*\*292\*\*, H3198 \(2007\).](#)

The Petri dish was again rinsed three times with TBS and filled with 5 ml TBS plus 1% BSA and the indicated cations. In some experiments, 10  $\mu\text{g}/\text{ml}$  HFN7.1, 1 mg/ml cyclo(GRGDSP) (AnaSpec, Inc.), or 10  $\mu\text{g}/\text{ml}$  TS2/16 or 12G10 (Fig. 6 D) were added to the buffer-[Kong, F. et al. \*J. Cell Biol.\* \*\*185\*\*, 1275 \(2009\).](#)

### Published Citations:

- Nadanaka, S. et al. *J Biol Chem* **276**, 33657 (2001).  
Kirkpatrick, ND. et al. *Am. J. Physiol. Heart Circ. Physiol.* **292**, H3198 (2007).  
Kong, F. et al. *J. Cell Biol.* **185**, 1275 (2009).

Related Products:

| <b>Name</b>   | <b>Cat #</b> | <b>Size</b> |
|---|--------------|-------------|
| GRGDSP  | AS-22945     | 1 mg        |
| GRGDSP  | AS-22946     | 5 mg        |
| Prototype of RGD-containing peptide, FITC-labeled<br>FITC-LC-GRGDSP | AS-60619     | 1 mg        |
| GRGDSPK   | AS-61109     | 1 mg        |
| GRGDSPK   |              |             |

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