



# LKT Laboratories, Inc.

## Fibronectin CS-1 Peptide

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### Product Information

**Product ID** F3207

**CAS No.**

**Chemical Name**

**Synonym** Fibronectin CS1

**Formula** C<sub>38</sub>H<sub>64</sub>N<sub>8</sub>O<sub>15</sub>

**Formula Wt.** 872.97

**Melting Point**

**Purity** ≥95%

**Solubility** Soluble in water.

**Store Temp** -20° C

**Ship Temp** Ambient

**Description** Fibronectin CS-1 peptide binds α4β1 integrin; it exhibits pro-metastatic and immunomodulatory activities. Fibronectin CS-1 peptide is involved in oral squamous cell carcinoma pathogenesis, regulating migration and invasion. This peptide may increase expression of matrix metalloproteinases (MMPs). In vitro, fibronectin CS-1 peptide stimulates proliferation of T cells. In animal models of cerebral ischemia/reperfusion, fibronectin CS-1 peptide decreases leukocyte infiltration in lesioned areas, decreasing infarct size.

Glu-Ile-Leu-Asp-Val-Pro-Ser-Thr

### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
F3207	1 mg	\$94.60
F3207	2 mg	\$160.70
F3207	5 mg	\$283.70

**References** Kamarajan P, Garcia-Pardo A, D'Silva NJ, et al. The CS1 segment of fibronectin is involved in human OSCC pathogenesis by mediating OSCC cell spreading, migration, and invasion. *BMC Cancer*. 2010 Jun 25;10:330. PMID: 20579373.

Yakubenko VP, Lobb RR, Plow EF, et al. Differential induction of gelatinase B (MMP-9) and gelatinase A (MMP-2) in T lymphocytes upon alpha(4)beta(1)-mediated adhesion to VCAM-1 and the CS-1 peptide of fibronectin. *Exp Cell Res*. 2000 Oct 10;260(1):73-84. PMID: 11010812.

Lehnert K, Print CG, Yang Y, et al. MAdCAM-1 costimulates T cell proliferation exclusively through integrin alpha4beta7, whereas VCAM-1 and CS-1 peptide use alpha4beta1: evidence for "remote" costimulation and induction of hyperresponsiveness to B7 molecules. *Eur J Immunol*. 1998 Nov;28(11):3605-15. PMID: 9842903.

Yanaka K, Camarata PJ, Spellman SR, et al. Neuronal protection from cerebral ischemia by synthetic fibronectin peptides to leukocyte adhesion molecules. *J Cereb Blood Flow Metab*. 1996 Nov;16(6):1120-5. PMID: 8898683.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.