



LKT Laboratories, Inc.

Fibronectin CS-1 Peptide

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Product Information

Product ID F3207

CAS No.

Chemical Name

Synonym Fibronectin CS1

Formula C₃₈H₆₄N₈O₁₅

Formula Wt. 872.97

Melting Point

Purity ≥95%

Solubility Soluble in water.

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

Product ID	Size
F3207	1 mg
F3207	2 mg
F3207	5 mg

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.

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.