



Product Information

Product ID L0248

CAS No. 110590-64-2

Chemical Name

Synonym

Formula $C_{26}H_{42}N_8O_8$

Formula Wt. 594.66

Melting Point

Purity $\geq 98\%$

Solubility Soluble in water(1 mg/mL).

Tyr-Ile-Gly-Ser-Arg

Bulk quantities available upon request

Product ID	Size
L0248	1 mg
L0248	5 mg

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description This pentapeptide is equivalent to a sequence found on the B1 chain of laminin (929-933); it exhibits anticancer and anti-metastatic activities. Like other laminin peptide, this sequence can be used in combination with chemotherapeutics to deliver the drug to target tumor tissues. This peptide increases collagen type 1 synthesis in fibroblasts. In prostate cancer cells, this peptide decreases the mitochondrial membrane potential, inhibits ATP synthesis, and increases caspase 9 activity, inhibiting cell migration and growth.

References Yoon JH, Kim J, Lee H, et al. Laminin peptide YIGSR induces collagen synthesis in Hs27 human dermal fibroblasts. *Biochem Biophys Res Commun.* 2012 Nov 23;428(3):416-21. PMID: 23111328.

Dubey PK, Singodia D, Vyas SP. Polymeric nanospheres modified with YIGSR peptide for tumor targeting. *Drug Deliv.* 2010 Sep-Oct;17(7):541-51. PMID: 20560774.

Yu HN, Zhang LC, Yang JG, et al. Effect of laminin tyrosine-isoleucine-glycine-serine-arginine peptide on the growth of human prostate cancer (PC-3) cells in vitro. *Eur J Pharmacol.* 2009 Aug 15;616(1-3):251-5. PMID: 19577562.

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