

Product Data Sheet

Product Name: YIGSRC acetate

Cat. No.: GC81369

Chemical Properties

Cas. No.

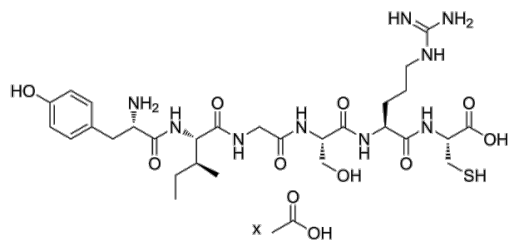
Formula $C_{29}H_{47}N_9O_9S \cdot xC_2H_4O_2$ M.Wt 697.8

Solubility DMSO: 20 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



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

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Background

YIGSRC acetate is a laminin-mimetic peptide. YIGSRC acetate supports endothelial cell adhesion and tube formation. YIGSRC acetate contains a cysteine residue for chemical modification to hydrogels via thiol-ene reaction. YIGSRC acetate can be chemically modified onto hydrogels to improve in vitro vascularization [1].

In Vitro, YIGSRC peptide (1.25 mM; 24 h) acetate enhances spreading and tubular structure formation of human umbilical vein endothelial cells in non-porous hydrogels, increasing the HUVEC area relative to unmodified hydrogels[1]. YIGSRC peptide (1.25 mM; 24 h) acetate causes a minor, statistically significant increase in the area of human umbilical vein endothelial cells in microfiber network hydrogels, though the hydrogel's porous microstructure has a more dominant effect on cellular spreading[1].

References:

[1]. Nishiguchi A, et al. Development of Phase-Separating Microfiber Network Hydrogels to Promote In Vitro Vascularization. *Biomacromolecules*. 2024;25(9):6146-6154.

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