# PRODUCT INFORMATION

## SIKVAV (acetate)

*Item No. 35159*

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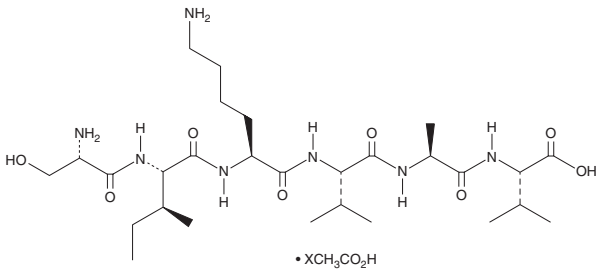
|---|---|
| **Formal Name:** | L-seryl-L-isoleucyl-L-lysyl-L-valyl-L-alanyl-L-valine, acetate |
| **Synonyms:** | Hexapeptide-10, Ser-Ile-Lys-Val-Ala-Val |
| **MF:** | $C_{28}H_{53}N_7O_8 \bullet XC_2H_4O_2$ |
| **FW:** | 615.8 |
| **Purity:** | ≥98% |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

SIKVAV (acetate) is supplied as a solid. Aqueous solutions of SIKVAV (acetate) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of SIKVAV (acetate) in PBS (pH 7.2) is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

SIKVAV is a laminin α1-derived peptide.[1] It binds to α3, α6, and β1 integrins and induces adhesion of CAC2 adenoid cystic carcinoma cells when used at a concentration of 1 µg/ml. SIKVAV (100 µg/ml) stimulates the proliferation and migration of primary mouse fibroblasts, as well as induces the secretion of EGF, VEGF, TGF-β, and FGF in the same cells.[2] Topical administration of a chitosan hydrogel containing SIKVAV promotes wound healing and angiogenesis in mice.

### References


1. Freitas, V.M., Vilas-Boas, V.F., Pimenta, D.C., *et al*. SIKVAV, a laminin α1-derived peptide, interacts with integrins and increases protease activity of a human salivary gland adenoid cystic carcinoma cell line through the ERK 1/2 signaling pathway. *Am. J. Pathol.* **171(1)**, 124-138 (2007).
2. Chen, X., Zhang, M., Chen, S., *et al*. Peptide-modified chitosan hydrogels accelerate skin wound healing by promoting fibroblast proliferation, migration, and secretion. *Cell Transplant.* **26(8)**, 1331-1340 (2017).





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