

## Product Data Sheet

Product Name: Pentapeptide-3 (acetate)

Cat. No.: GC49689

### Chemical Properties

Cas. No. N/A

SMILES O=C([C@H]1N(CCC1)C(CN)=O)N[C@@H](CCCNC(N)=N)C(N2[C@@H](CCC2)C(N[C@@H](C)C(N)=O)=O)=O.OC(C)=O

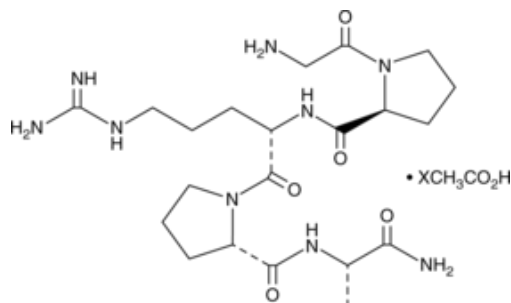
Formula  $C_{21}H_{37}N_9O_5 \cdot XCH_3CO_2H$  M.Wt 495.6

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: insol, PBS (pH 7.2): 5 mg/ml Storage  $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  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



### Background

Pentapeptide-3 is a cosmeceutical peptide and pentapeptide fragment of the temple viper (*T. wagleri*) venom peptide Waglerin-1.<sup>1</sup> It is an antagonist of nicotinic acetylcholine receptors (nAChRs).<sup>2</sup>

1. Schagen, S.K. Topical peptide treatments with effective anti-aging results *Cosmetics* 4(2) (2017)

2. Zhmak, M.N., Utkin, Y.N., Andreeva, T.V., et al. Peptide inhibitors of nicotinic acetylcholine receptor *US 9,550,808 B2* (2017)

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

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