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## Product Data Sheet

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Product Name: Leucokinin VIII

Cat. No.: GC36440

### Chemical Properties

Cas. No. 2703746-05-6

Formula  $C_{42}H_{52}N_{10}O_{11}$  M.Wt 872.92

Solubility Soluble in DMSO Storage Store at  $-20^{\circ}C$

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

Leucokinin VIII is a diuretic octapeptide isolated from head extracts of the cockroach.

Leucokinin VIII is an octapeptide, increases the rates of transepithelial  $NaCl$ ,  $KCl$  and water secretion, increases the  $Cl$  conductance of the epithelial shunt via a receptor located at the basolateral side of the epithelium[1]. Leucokinin VIII also activates  $Ca^{2+}$ -dependent signal pathway in principal cells of *Aedes aegypti* Malpighian tubules[2].

[1]. Pannabecker TL, et al. Regulation of epithelial shunt conductance by the peptide leucokinin. *J Membr Biol.* 1993 Feb;132(1):63-76. [2]. Yu MJ, et al. Leucokinin activates  $Ca^{2+}$ -dependent signal pathway in principal cells of *Aedes aegypti* Malpighian tubules. *Am J Physiol Renal Physiol.* 2002 Sep;283(3):F499-508.

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

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