

## Product Data Sheet

Product Name: L-R4W2 acetate

Cat. No.: GC79531

### Chemical Properties

Cas. No.

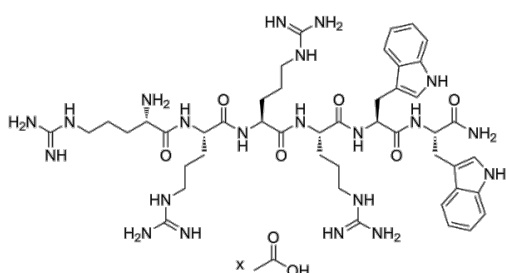
Formula  $C_{46}H_{71}N_{21}O_6 \cdot xC_2H_4O_2$  M.Wt 1014.19

Solubility 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

L-R4W2 acetate is a potent antagonist of vanilloid receptor 1 (VR1, TRPV1 ), with an IC<sub>50</sub> of 0.1  $\mu$ M.

L-R4W2 acetate may act as a potent analgesic [1] [2].

### References:

[1]. Planells-Cases R, et, al. Arginine-rich peptides are blockers of VR-1 channels with analgesic activity. FEBS Lett. 2000 Sep 15; 481(2): 131-6.

[2]. Himmel HM, et, al. The arginine-rich hexapeptide R4W2 is a stereoselective antagonist at the vanilloid receptor 1: a Ca<sup>2+</sup> imaging study in adult rat dorsal root ganglion neurons. J Pharmacol Exp Ther. 2002 Jun; 301(3): 981-6.

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