

Data Sheet (Cat.No.TP1559L)

Ziconotide Acetate (107452-89-1 free base)

Chemical Properties

| | | |
|-------------------|--|--|
| CAS No.: | 914451-03-8 | |
| Formula: | C102H172N36O32S7 | CKGKGAKCSRLMYDCCTGSCRS GKC-NH2 (Disulfide bridge:Cys1-Cys16; Cys8-Cys20;Cys15-Cys25)(acetate salt) |
| Molecular Weight: | 2639.2 | |
| Appearance: | N/A | |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). | |

Biological Description

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|-------------|--|
| Description | Ziconotide is an analgesic agent and has been used to treat neuropathic and non-neuropathic pain. Ziconotide acts by binding to N-type calcium channels situated on the terminal part of primary afferent neurons of the nociceptive pathway therefore reducing synaptic transmission with potent antinociceptive effects. |
|-------------|--|

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|----------|----------|
| 1 mM | 0.379 mL | 1.895 mL | 3.789 mL |
| 5 mM | 0.076 mL | 0.379 mL | 0.758 mL |
| 10 mM | 0.038 mL | 0.189 mL | 0.379 mL |
| 50 mM | 0.008 mL | 0.038 mL | 0.076 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Brinzeu A, Berthiller J, Caillet JB, Staquet H, Mertens P. Ziconotide for spinal cord injury-related pain. Eur J Pain. 2019;23(9):1688-1700. doi:10.1002/ejp.1445

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