

## AmmTX3

## Chemical Properties

CAS No. :

Formula: C158H262N50O48S6

Molecular Weight: 3822.47

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

|               |   |
|---------------|---|
| Description   | KV4 channel blocker. Blocks A-type K <sup>+</sup> current (ISA) in mouse cerebellar granule neurons. The accessory dipeptidyl peptidase-like proteins (DPP) 6 and 10 are required for blockade. |
| Targets(IC50) | Potassium Channel   |

## Solubility Information

|            |  |
|------------|--|
| Solubility | H2O: 1 mg/mL (0.26 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.2616 mL | 1.3081 mL | 2.6161 mL |
| 5 mM  | 0.0523 mL | 0.2616 mL | 0.5232 mL |
| 10 mM | 0.0262 mL | 0.1308 mL | 0.2616 mL |
| 50 mM | 0.0052 mL | 0.0262 mL | 0.0523 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Maffie et al (2013) Dipeptidyl-peptidase-like-proteins confer high sensitivity to the scorpion toxin AmmTX3 to Kv4-mediated A-type K<sup>+</sup> channels. J.Physiol. 591 2419 PMID:

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