

## Speract TFA(76901-59-2(free base))

## Chemical Properties

CAS No. :

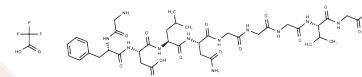
Formula: C40H58F3N11O16

Molecular Weight: 1005.96

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   | Speract TFA is a sea urchin egg peptide that regulates sperm motility, also stimulates sperm mitochondrial metabolism. |
| Targets(IC50) | Others   |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 10 mM, Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.9941 mL | 4.9704 mL | 9.9408 mL |
| 5 mM  | 0.1988 mL | 0.9941 mL | 1.9882 mL |
| 10 mM | 0.0994 mL | 0.497 mL  | 0.9941 mL |
| 50 mM | 0.0199 mL | 0.0994 mL | 0.1988 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

Darszon, Alberto, Garcia-Rincon, et al. Speract, a sea urchin egg peptide that regulates sperm motility, also stimulates sperm mitochondrial metabolism[J]. Biochimica Et Biophysica Acta Bioenergetics, 2016.

Hansbrough J . Speract: Purification and characterization of a peptide associated with egg that activates spermatozoa[J]. J Biol Chem, 1981, 256(3):1447-1452.

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