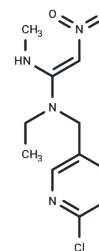


Nitenpyram

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 150824-47-8 |
| Formula: | C ₁₁ H ₁₅ ClN ₄ O ₂ |
| Molecular Weight: | 270.72 |
| Appearance: | no data available |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year |



Biological Description

| | |
|---------------|--|
| Description | Nitenpyram (Capstar) is a nicotinic acetylcholine receptor (AChR) agonist, used as veterinary medicine to treat parasites of livestock and pets. |
| Targets(IC50) | AChR |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 70 mg/mL (258.57 mM), Sonication is recommended. H ₂ O: 50 mg/mL (184.69 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.6939 mL | 18.4693 mL | 36.9385 mL |
| 5 mM | 0.7388 mL | 3.6939 mL | 7.3877 mL |
| 10 mM | 0.3694 mL | 1.8469 mL | 3.6939 mL |
| 50 mM | 0.0739 mL | 0.3694 mL | 0.7388 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.

Reference

Yan S, Wang J, Zhu L, Chen A, Wang J. *Ecotoxicol Environ Saf*. 2015 Dec;122:54-60.
Ueyama J, et al. *Environ Sci Technol*. 2015 Dec 15;49(24):14522-8.

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