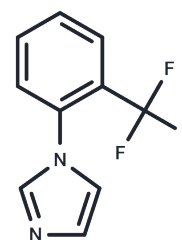


## TRIM

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 25371-96-4  |
| Formula:          | C <sub>10</sub> H <sub>7</sub> F <sub>3</sub> N <sub>2</sub>  |
| Molecular Weight: | 212.17  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | TRIM (1-(2-Trifluoromethylphenyl)imidazole) is an inhibitor of nNOS.  |
| Targets(IC50) | NOS, NO Synthase  |
| In vivo       | TRIM is a poor inhibitor of bovine aortic endothelial NOS with an IC <sub>50</sub> of 1057.5 micromM. TRIM (10-50 mg kg <sup>-1</sup> ) administered i.p. exhibits dose-related antinociceptive activity in the mouse (assessed as inhibition of late phase formalin-induced hindpaw licking behaviour) with an ED <sub>50</sub> of 85.8 micromol kg <sup>-1</sup> . In contrast, TRIM (50 mg kg <sup>-1</sup> , i.p.) failed to influence mean arterial blood pressure in the urethane-anaesthetized mouse[1]. |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 2.13 mg/mL (10.04 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 4.7132 mL | 23.566 mL | 47.132 mL |
| 5 mM  | 0.9426 mL | 4.7132 mL | 9.4264 mL |
| 10 mM | 0.4713 mL | 2.3566 mL | 4.7132 mL |
| 50 mM | 0.0943 mL | 0.4713 mL | 0.9426 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

Handy R L C , Wallace P , Gaffen Z A , et al. The antinociceptive effect of 1-(2-trifluoromethylphenyl) imidazole (TRIM), a potent inhibitor of neuronal nitric oxide synthase in vitro, in the mouse.[J]. British Journal of Pharmacology, 2012, 116(5):2349-2350.

Volke V , Wegener G , Bourin M , et al. Antidepressant- and anxiolytic-like effects of selective neuronal NOS inhibitor 1-(2-trifluoromethylphenyl)-imidazole in mice[J]. Behavioural Brain Research, 2003, 140(1-2):141-147.

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