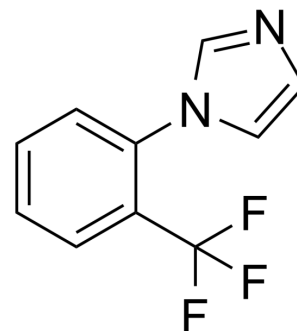


## TRIM

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-101316  |
| <b>CAS No.:</b>           | 25371-96-4   |
| <b>Molecular Formula:</b> | C <sub>10</sub> H <sub>7</sub> F <sub>3</sub> N <sub>2</sub>   |
| <b>Molecular Weight:</b>  | 212.17   |
| <b>Target:</b>            | NO Synthase  |
| <b>Pathway:</b>           | Immunology/Inflammation  |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 250 mg/mL (1178.30 mM; Need ultrasonic)

| Concentration | Mass      |            |            |  |
|---------------|-----------|------------|------------|--|
|               | 1 mg      | 5 mg       | 10 mg      |  |
| 1 mM          | 4.7132 mL | 23.5660 mL | 47.1320 mL |  |
| 5 mM          | 0.9426 mL | 4.7132 mL  | 9.4264 mL  |  |
| 10 mM         | 0.4713 mL | 2.3566 mL  | 4.7132 mL  |  |

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

TRIM is a potent nitric oxide synthase inhibitor. TRIM inhibits mouse cerebellar nNOS and rat lung iNOS in vitro with IC<sub>50</sub> values of 28.2 and 27.0 μM, respectively. Antidepressant- and anxiolytic-like effects<sup>[1][2]</sup>.

### In Vitro

TRIM is a relatively weak inhibitor of eNOS (IC<sub>50</sub>, 1057.5 μM)<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Handy RL, et al. The antinociceptive effect of 1-(2-trifluoromethylphenyl) imidazole (TRIM), a potent inhibitor of neuronal nitric oxide synthase in vitro, in the mouse. *Br J Pharmacol.* 1995;116(5):2349-2350.

[2]. Volke V, et al. Antidepressant- and anxiolytic-like effects of selective neuronal NOS inhibitor 1-(2-trifluoromethylphenyl)-imidazole in mice. *Behav Brain Res.* 2003;140(1-2):141-147.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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