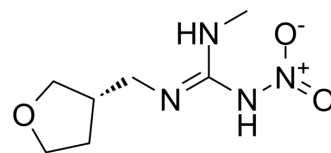


## (S)-Dinotefuran

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-B0827B   |
| CAS No.:           | 322639-07-6   |
| Molecular Formula: | C <sub>7</sub> H <sub>14</sub> N <sub>4</sub> O <sub>3</sub>                              |
| Molecular Weight:  | 202.21  |
| Target:            | nAChR; Parasite   |
| Pathway:           | Membrane Transporter/Ion Channel; Neuronal Signaling; Anti-infection                      |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

#### Description

(S)-Dinotefuran ((S)-MTI-446), a neonicotinoid pesticide, is toxic by binding to  $\alpha 8$  subunit of nAChR of honeybee *Apis mellifera* (*Apis mellifera* Linnaeus). (S)-Dinotefuran shows more toxic than R-dinotefuran to honeybee *Apis mellifera*<sup>[1]</sup>.

### REFERENCES

[1]. Zenglong Chen, et al. Ecological toxicity reduction of dinotefuran to honeybee: New perspective from an enantiomeric level. *Environ Int.* 2019 Sep;130:104854.

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

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