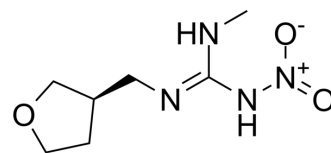


## (R)-Dinotefuran

Cat. No.:	HY-B0827A
CAS No.:	406466-53-3
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

(R)-Dinotefuran ((R)-MTI-446), a neonicotinoid pesticide, exhibits comparative insecticidal activities (1.7-2.4 times) to typical sucking pests *Aphis gossypii* and *Apolygus lucorum* compared to racemic mixtures by inhibiting nicotinic acetylcholine receptors. (R)-Dinotefuran has a good efficacy in controlling target pests while minimizing hazard to honeybees<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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA