



# Product Information Sheet for MRA-1161

## Chemical Compound

**Substance Name: DSM1**

**Catalog No. MRA-1161**

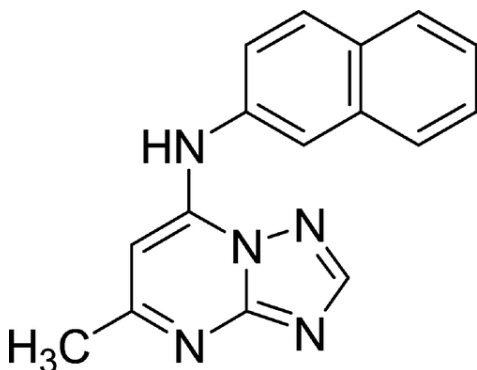
This reagent is the tangible property of the U.S. Government.

**For research use only. Not for human use.**

### Product Description:

**Formula:** 5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)naphthalen-2-ylamine

### Structure:



### Supplier:

Asinex, Ltd.

### Material Provided:

Each vial of MRA-1161 contains approximately 0.5 g (500 mg) of DSM1 powder.

### Packaging/Storage:

MRA-1161 is packaged in brown glass vials. Store closed vial in a dry place.

### Solubility:

MRA-1161 DSM1 is soluble in dimethylsulfoxide (DMSO). Store solubilized aliquots at -20C or below. DSM1 is insoluble in dH2O.

### Functional Activity:

MRA-1161 DSM1 is active against blood stages of *Plasmodium falciparum* *in vitro*, and a known inhibitor of *Plasmodium falciparum* dihydroorotate dehydrogenase (PfDHODH).

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through MR4/BEI Resources, NIAID, NIH: DSM1, MRA-1161."

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

### Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at [www.beiresources.org](http://www.beiresources.org). While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

### Use Restrictions:

**This material is distributed for internal research, noncommercial purposes only.** This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale. This material may be subject to third party patent rights.

### References:

1. Phillips MA et al. Triazolopyrimidine-based dihydroorotate dehydrogenase inhibitors with potent and selective activity against the malaria parasite, *Plasmodium falciparum*. J. Med. Chem. 51: 3649-3653, 2008. PubMed: 18522386
2. Phillips MA, Rathod PK. Plasmodium dihydroorotate dehydrogenase: a promising target for novel anti-malarial chemotherapy. Infect. Disord. Drug Targets. 10: 226-239, 2010. PubMed: 20334617

**BEI Resources/MR4**

[www.beiresources.org](http://www.beiresources.org)  
[www.mr4.org](http://www.mr4.org)

E-mail: [contact@beiresources.org](mailto:contact@beiresources.org)

Tel: 800-359-7370

Fax: 703-365-2898



# Product Information Sheet for MRA-1161

## Chemical Compound

3. Deng X et al. Structural plasticity of malaria dihydroorotate dehydrogenase allows selective binding of diverse chemical scaffolds. *J. Biol. Chem.* 284: 26999-27009, 2009. PubMed: 19640844
4. Gujjar R et al. Identification of a metabolically stable triazolopyrimidine-based dihydroorotate dehydrogenase inhibitor with antimalarial activity in mice. *J. Med. Chem.* 52: 1864-1872, 2009. PubMed: 19296651

ATCC® is a registered trademark of the American Type Culture Collection.

