

(Rac)-ACT-451840

## Chemical Properties

CAS No. : 1839508-99-4

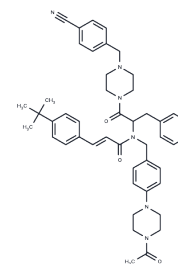
Formula: C47H54N6O3

Molecular Weight: 750.97

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	(Rac)-ACT-451840 is an isomer of ACT-451840 exhibiting antimalarial activity against Plasmodium falciparum NF54.
Targets(IC50)	Parasite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3316 mL	6.6581 mL	13.3161 mL
5 mM	0.2663 mL	1.3316 mL	2.6632 mL
10 mM	0.1332 mL	0.6658 mL	1.3316 mL
50 mM	0.0266 mL	0.1332 mL	0.2663 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

- Bruderer S, et al. First-in-humans study of the safety, tolerability, and pharmacokinetics of ACT-451840, a new chemical entity with antimalarial activity. *Antimicrob Agents Chemother.* 2015;59(2):935-942.
- Le Bihan A, et al. Characterization of Novel Antimalarial Compound ACT-451840: Preclinical Assessment of Activity and Dose-Efficacy Modeling. *PLoS Med.* 2016;13(10):e1002138. Published 2016 Oct 4.
- Ng CL, et al. CRISPR-Cas9-modified pfmdr1 protects Plasmodium falciparum asexual blood stages and gametocytes against a class of piperazine-containing compounds but potentiates artemisinin-based combination therapy partner drugs. *Mol Microbiol.* 2016 Aug;101(3):381-93.
- Boss C, et al. Discovery and Characterization of ACT-451840: an Antimalarial Drug with a Novel Mechanism of Action. *ChemMedChem.* 2016 Sep 20;11(18):1995-2014.

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