



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC Handels GmbH

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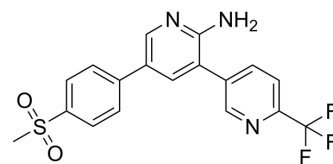
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## MMV390048

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-106005                                                                                      |
| CAS No.:           | 1314883-11-8                                                                                   |
| Molecular Formula: | C <sub>18</sub> H <sub>14</sub> F <sub>3</sub> N <sub>3</sub> O <sub>2</sub> S                 |
| Molecular Weight:  | 393.38                                                                                         |
| Target:            | Parasite; PI4K                                                                                 |
| Pathway:           | Anti-infection; PI3K/Akt/mTOR                                                                  |
| Storage:           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

|                                                                               |                                                                                                               |                                                       |      |           |            |            |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------|-----------|------------|------------|
| In Vitro                                                                      | DMSO : 100 mg/mL (254.21 mM; Need ultrasonic)                                                                 |                                                       |      |           |            |            |
|                                                                               | Preparing Stock Solutions                                                                                     | <div><div>Solvent</div><div>Concentration</div></div> | Mass | 1 mg      | 5 mg       | 10 mg      |
|                                                                               |                                                                                                               | 1 mM                                                  |      | 2.5421 mL | 12.7104 mL | 25.4207 mL |
|                                                                               |                                                                                                               | 5 mM                                                  |      | 0.5084 mL | 2.5421 mL  | 5.0841 mL  |
|                                                                               |                                                                                                               | 10 mM                                                 |      | 0.2542 mL | 1.2710 mL  | 2.5421 mL  |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                               |                                                       |      |           |            |            |
| In Vivo                                                                       | 1. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (6.36 mM); Clear solution |                                                       |      |           |            |            |

### BIOLOGICAL ACTIVITY

|                           |                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description               | MMV390048 is a representative of a new chemical class of Plasmodium PI4K inhibitor ( $K_d^{app}=0.3 \mu M$ ). MMV390048 binds to the ATP binding site of Plasmodium PI4K and does not bind to other P. falciparum and human kinases apart from human PIP4K2C, thus alleviating potential kinase-mediated safety concerns. MMV390048 is an antimalarial agent <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | Plasmodium                                                                                                                                                                                                                                                                                                                                                                    |
| In Vitro                  | MMV390048 against intraerythrocytic life cycle stages of P. falciparum (NF54 drug-sensitive strain) showed a steep inhibition curve with IC <sub>50</sub> and IC <sub>90</sub> values of 28 and 40 nM, respectively.<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only.                                                       |

### CUSTOMER VALIDATION

- 
- Antimicrob Agents Chemother. 2022 Aug 4;e0057422.
  - Obihiro University of Agriculture and Veterinary Medicine. 2023 Mar 20.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Paquet T, et al. Antimalarial efficacy of MMV390048, an inhibitor of Plasmodium phosphatidylinositol 4-kinase. Sci Transl Med. 2017 Apr 26;9(387). pii: eaad9735.

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

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