

Org41841

## Chemical Properties

CAS No. : 301847-37-0

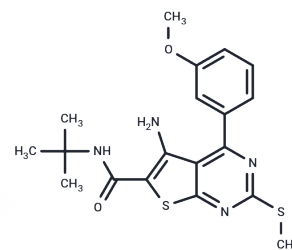
Formula: C<sub>19</sub>H<sub>22</sub>N<sub>4</sub>O<sub>2</sub>S<sub>2</sub>

Molecular Weight: 402.53

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                | Org41841 is an agonist of luteinising hormone/chorionic gonadotropin receptor and thyroid stimulating hormone receptor (EC <sub>50</sub> s: 0.2 and 7.7 μM, respectively) and can be used to study hyperthyroidism. |
| Targets(IC <sub>50</sub> ) | TSH Receptor  |
| In vitro                   | org41841 is a partial agonist of TSHR, but its potency is lower than LHCGR[1].  |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 80 mg/mL (198.74 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.4843 mL | 12.4214 mL | 24.8429 mL |
| 5 mM  | 0.4969 mL | 2.4843 mL  | 4.9686 mL  |
| 10 mM | 0.2484 mL | 1.2421 mL  | 2.4843 mL  |
| 50 mM | 0.0497 mL | 0.2484 mL  | 0.4969 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

Holger Jaschke, et al. A low molecular weight agonist signals by binding to the transmembrane domain of thyroid-stimulating hormone receptor (TSHR) and luteinizing hormone/chorionic gonadotropin receptor(LHCGR). J Biol Chem. 2006 Apr 14;281(15):9841-4.

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