



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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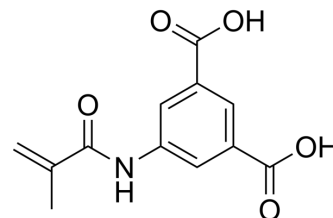
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## MS15203

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-116797                                                                                      |
| CAS No.:           | 73912-52-4                                                                                     |
| Molecular Formula: | C <sub>12</sub> H <sub>11</sub> NO <sub>5</sub>                                                |
| Molecular Weight:  | 249.22                                                                                         |
| Target:            | GPR171                                                                                         |
| Pathway:           | GPCR/G Protein                                                                                 |
| 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 : 50 mg/mL (200.63 mM; ultrasonic and warming and heat to 60°C)                                                                      |                                      |      |           |            |            |
|                                                                               | Preparing Stock Solutions                                                                                                                 | <div>Solvent<br/>Concentration</div> | Mass | 1 mg      | 5 mg       | 10 mg      |
|                                                                               |                                                                                                                                           | 1 mM                                 |      | 4.0125 mL | 20.0626 mL | 40.1252 mL |
|                                                                               |                                                                                                                                           | 5 mM                                 |      | 0.8025 mL | 4.0125 mL  | 8.0250 mL  |
|                                                                               |                                                                                                                                           | 10 mM                                |      | 0.4013 mL | 2.0063 mL  | 4.0125 mL  |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                                                           |                                      |      |           |            |            |
| In Vivo                                                                       | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 2.5 mg/mL (10.03 mM); Clear solution |                                      |      |           |            |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (10.03 mM); Clear solution                            |                                      |      |           |            |            |

## BIOLOGICAL ACTIVITY

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | MS15203 is a potent and selective GPR171 agonist. MS15203 increases food intake and body weight. MS15203 increases neuronal activity. MS15203 significantly increases the abundance of the mRNAs encoding proSAAS, NPY, AgRP <sup>[1]</sup> .                                                                                                                                                                                                                          |
| In Vitro    | MS15203 (MS0015203) dose-dependently increases [ <sup>35</sup> S]GTPγS binding and inhibits adenylyl cyclase activity in rat hypothalamic membranes <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only.                                                                                                                                                                                                |
| In Vivo     | MS15203 (MS0015203) (3 mg/kg; i.p.) causes an increase in neuronal activity within cells containing GPR171 in the PVN <sup>[1]</sup> .<br>.MS15203 (3 mg/kg; i.p.) significantly increases food intake at 4 and 8 hours <sup>[1]</sup> .<br>MS15203 (3 mg/kg; i.p.) significantly increases the abundance of the mRNAs encoding proSAAS, NPY, AgRP <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

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## REFERENCES

[1]. Wardman JH, et al. Identification of a small-molecule ligand that activates the neuropeptide receptor GPR171 and increases food intake. Sci Signal. 2016 May 31;9(430):ra55.

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

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