



# SZABO SCANDIC

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## 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 HandelsgmbH

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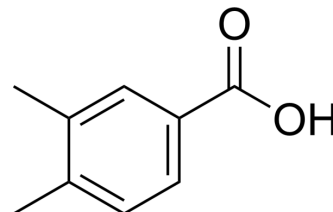
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## 3,4-Dimethylbenzoic acid

|                    |                                               |       |          |
|--------------------|-----------------------------------------------|-------|----------|
| Cat. No.:          | HY-W017434                                    |       |          |
| CAS No.:           | 619-04-5                                      |       |          |
| Molecular Formula: | C <sub>9</sub> H <sub>10</sub> O <sub>2</sub> |       |          |
| Molecular Weight:  | 150.18                                        |       |          |
| Target:            | Drug Metabolite                               |       |          |
| Pathway:           | Metabolic Enzyme/Protease                     |       |          |
| Storage:           | Powder                                        | -20°C | 3 years  |
|                    |                                               | 4°C   | 2 years  |
|                    | In solvent                                    | -80°C | 6 months |
|                    |                                               | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                                |                                           |           |            |            |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------|------------|------------|
| In Vitro                                                                      | DMSO : 100 mg/mL (665.87 mM; Need ultrasonic)                                                                                  |                                           |           |            |            |
|                                                                               | Preparing Stock Solutions                                                                                                      | <div>Solvent Mass<br/>Concentration</div> | 1 mg      | 5 mg       | 10 mg      |
|                                                                               |                                                                                                                                | 1 mM                                      | 6.6587 mL | 33.2934 mL | 66.5868 mL |
|                                                                               |                                                                                                                                | 5 mM                                      | 1.3317 mL | 6.6587 mL  | 13.3174 mL |
|                                                                               |                                                                                                                                | 10 mM                                     | 0.6659 mL | 3.3293 mL  | 6.6587 mL  |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                                                |                                           |           |            |            |
| In Vivo                                                                       | 1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.5 mg/mL (16.65 mM); Clear solution |                                           |           |            |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (16.65 mM); Clear solution                 |                                           |           |            |            |

### BIOLOGICAL ACTIVITY

|             |                                                                                                                                                                                                                                                                                                                 |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | 3,4-Dimethylbenzoic acid acts as a product of dimethylbenzoate metabolism by <i>Rhodococcus rhodochrous</i> N75 <sup>[1]</sup> .                                                                                                                                                                                |
| In Vitro    | 3,4-Dimethylbenzoic acid is oxidised by 4-methylbenzoate (p-toluate)-grown cells of <i>Rhodococcus rhodochrous</i> N75 via the ortho-pathway through the intermediates 3,4-dimethylcatechol <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### CUSTOMER VALIDATION

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- Laurea Magistrale in Biomedical Engineering, Politecnico di Milano. 2019 Jun.

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

## REFERENCES

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[1]. StefanSchmidt, et al. Isolation and identification of two novel butenolides as products of dimethylbenzoate metabolism by *Rhodococcus rhodochrous* N75.

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

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