



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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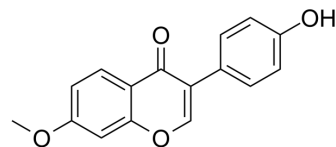
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## Isoformononetin

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-N7501                                                                                       |
| CAS No.:           | 486-63-5                                                                                       |
| Molecular Formula: | C <sub>16</sub> H <sub>12</sub> O <sub>4</sub>                                                 |
| Molecular Weight:  | 268.26                                                                                         |
| Target:            | Others                                                                                         |
| Pathway:           | Others                                                                                         |
| 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 : 250 mg/mL (931.93 mM; Need ultrasonic)                                                                                             |                                                       |           |            |            |       |
|                                                                               | Preparing Stock Solutions                                                                                                                 | <div><div>Solvent</div><div>Concentration</div></div> | Mass      | 1 mg       | 5 mg       | 10 mg |
|                                                                               |                                                                                                                                           |                                                       |           |            |            |       |
|                                                                               |                                                                                                                                           | 1 mM                                                  | 3.7277 mL | 18.6386 mL | 37.2773 mL |       |
|                                                                               |                                                                                                                                           | 5 mM                                                  | 0.7455 mL | 3.7277 mL  | 7.4555 mL  |       |
|                                                                               |                                                                                                                                           | 10 mM                                                 | 0.3728 mL | 1.8639 mL  | 3.7277 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: ≥ 2.08 mg/mL (7.75 mM); Clear solution |                                                       |           |            |            |       |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.08 mg/mL (7.75 mM); Clear solution                            |                                                       |           |            |            |       |

### BIOLOGICAL ACTIVITY

|             |                                                                                                                                                                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Isoformononetin is an analog of Daidzein (HY-N0019) and has immunoprotective effects. Isoformononetin inhibits the differentiation of Th17 and B-cells lymphopoiesis to promote osteogenesis in estrogen-deficient bone loss conditions <sup>[1]</sup> . |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### CUSTOMER VALIDATION

- J Nat Prod. 2023 Aug 25.

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

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## REFERENCES

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[1]. Mohd N Mansoori, et al. Methoxyisoflavones Formononetin and Isoformononetin Inhibit the Differentiation of Th17 Cells and B-cell Lymphopoiesis to Promote Osteogenesis in Estrogen-Deficient Bone Loss Conditions. Menopause

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

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