



# 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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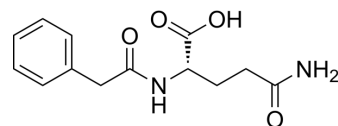
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## Phenylacetylglutamine

Cat. No.:	HY-W050026		
CAS No.:	28047-15-6		
Molecular Formula:	C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>		
Molecular Weight:	264.28		
Target:	Endogenous 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 (378.39 mM; Need ultrasonic)  
 H<sub>2</sub>O : 25 mg/mL (94.60 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		3.7839 mL	18.9193 mL	37.8387 mL
	5 mM		0.7568 mL	3.7839 mL	7.5677 mL
	10 mM		0.3784 mL	1.8919 mL	3.7839 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 50 mg/mL (189.19 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (7.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (7.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (7.87 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Phenylacetylglutamine is a colonic microbial metabolite from amino acid fermentation.

#### IC<sub>50</sub> & Target

Microbial Metabolite

Human Endogenous Metabolite

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## In Vitro

Phenylacetylglutamine is a colonic microbial metabolite from amino acid fermentation. It results from glutamine conjugation of phenylacetic acid, which is almost exclusively derived from the microbial conversion of phenylalanine<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Biomolecules. 2022, 12(8), 1120.

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

## REFERENCES

[1]. Poesen R, et al. Microbiota-Derived Phenylacetylglutamine Associates with Overall Mortality and Cardiovascular Disease in Patients with CKD. J Am Soc Nephrol. 2016 Nov;27(11):3479-3487.

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

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