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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Phenylacetyl-L-glutamine

Bioactive gut microbial metabolite
Catalog No. SIH-611



Discovery through Partnership | Excellence through Quality

Product Name

Phenylacetyl-L-glutamine

Description

Bioactive gut microbial metabolite

Purity

>98% (HPLC); NMR (conforms)

CAS No.

28047-15-6

Molecular Formula

$C_{13}H_{16}N_2O_4$

Molecular Weight

264.3

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inducer

Solubility

May be dissolved in DMSO (45 mg / ml)

Source

Synthetic

Appearance

Off-white powder

SMILES

C1=CC=C(C=C1)CC(=O)NC(CCC(=O)N)C(=O)O

InChI

InChI=1S/C13H16N2O4/c14-11(16)7-6-10(13(18)19)15-12(17)8-9-4-2-1-3-5-9/h1-5,10H,6-8H2,(H2,14,16)(H,15,17)(H,18,19)/t10-/m0/s1

InChIKey

JFLIEFSWGNOPJJ-JTQLQIEISA-N

Safety Phrases

Classification: Warning

Hazard Statements,

H302 (100%): Harmful if swallowed [Warning Acute toxicity, oral]

Precautionary Statement Codes,:

P264, P270, P301+P317, P330, and P501

Cite This Product

Phenylacetyl-L-glutamine (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-611)

Biological Description

Alternative Names

(S)-5-Amino-5-oxo-2-(2-phenylacetamido)pentanoic acid; N-Phenylacetylglutamine; Phenylacetylglutamine; Phenyl-Ac-Gln-OH; NSC-203800; PAG

Research Areas

Cardiovascular System

PubChem ID

92258

Scientific Background

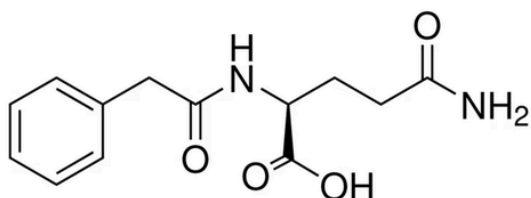
Phenylacetyl-L-glutamine is a versatile compound that finds application in microbiome and metabolomics research. Gut-microbiota-dependent PAG is associated with cardiovascular disease pathogenesis (1) via

action at adrenergic receptors (2). Plasma PAG levels may be a valuable indicator for predicting coronary in-stent restenosis (3).

References

- 1.Romano K.A., et al. (2022) Circ. Heart. Fail. e009972 Online ahead of print
- 2.Nemet I., et al. (2020) Cell. 180:862
- 3.Yua F., et al. (2022) Front. Cardiovasc. Med. 9:944155

Product Images



Chemical structure of Phenylacetyl-L-glutamine (SIH-611), a Bioactive gut microbial metabolite. CAS #: 28047-15-6. Molecular Formula: C₁₃H₁₆N₂O₄. Molecular Weight: 264.3 g/mol.

Product Citations

Reviews

There are no reviews yet.