

Product Name: Trofinetide

Catalog No.: 7937

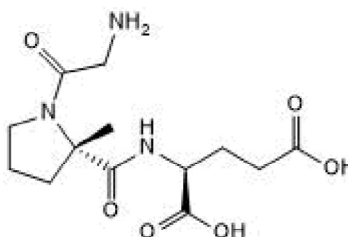
Batch No.: 1

CAS Number: 853400-76-7

IUPAC Name: Glycyl-2-methyl-L-prolyl-L-glutamic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₂₁N₃O₆·³/₄H₂O
Batch Molecular Weight: 328.83
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 50 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.48	6.9	12.78
Found	46.65	6.83	12.68

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: Glycyl-2-methyl-L-prolyl-L-glutamic acid

Description:

Trofinetide is an IGF-1 synthetic analogue. It suppresses expression of IL-1 β , TNF- α , IFN- γ and E-selectin, and inhibits both acute and delayed neuroinflammation following penetrating ballistic-like brain injury (PBLI) in rats.

Physical and Chemical Properties:

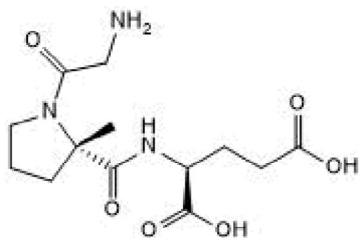
Batch Molecular Formula: C₁₃H₂₁N₃O₆· $\frac{3}{4}$ H₂O

Batch Molecular Weight: 328.83

Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO to 50 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Wei *et al* (2009) NNZ-2566 treatment inhibits neuroinflammation and pro-inflammatory cytokine expression induced by experimental penetrating ballistic-like brain injury in rats. *J.Neuroinflammation* **6** 19. PMID: 19656406.

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