

Product Name: Muramyl Dipeptide

Catalog No.: 6366

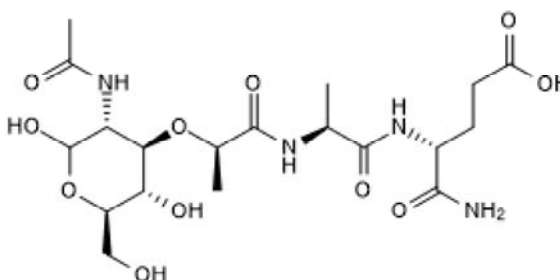
Batch No.: 2

CAS Number: 53678-77-6

IUPAC Name: *N*-Acetylmuramoyl-L-alanyl-D- α -glutamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₃₂N₄O₁₁
Batch Molecular Weight: 492.48
Physical Appearance: White lyophilised solid
Solubility: water to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
Mass Spectrum: Consistent with structure

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

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IUPAC Name: *N*-Acetylmuramoyl-L-alanyl-D- α -glutamine

Description:

Bacterial peptidoglycan fragment that activates NOD2 receptors. Induces polarization of proinflammatory Ly6C^{high} into Ly6C^{low} patrolling monocytes.

Physical and Chemical Properties:

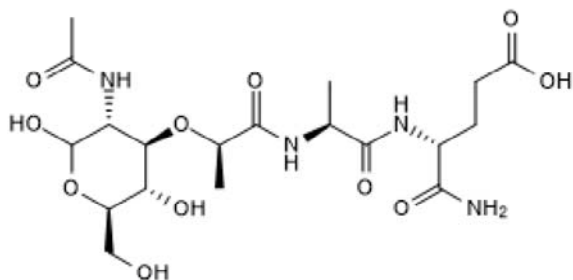
Batch Molecular Formula: C₁₉H₃₂N₄O₁₁

Batch Molecular Weight: 492.48

Physical Appearance: White lyophilised solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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. Our standard recommendations are:

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:

Lessard *et al* (2017) Triggering of NOD2 receptor converts inflammatory Ly6C^{high} into Ly6C^{low} monocytes with patrolling properties. *Cell Rep.* **20** 1830. PMID: 28834747.

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bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956