

Muramyl dipeptide (MDP)

Cat. No. LIGC-009

Lot. No. (See product label)

Introduction

Description Muramyl dipeptide (MDP) is the minimal bioactive peptidoglycan motif common to all bacteria, the

essential structure required for adjuvant activity in vaccines. MDP has been shown to be recognized by NOD2, but not TLR2, nor TLR2/1 or TLR2/6 associations. This recognition is highly stereospecific of the L-D isomer, excluding any reaction to the D-D or L-L analogs. The potent adjuvant activity of MDP may

be linked to an activation of the CIAS1/NALP3/Cryopyrin inflammasome.

Synonyms N-Acetylmuramyl-L-Alanyl-D-Isoglutamine (L-D isoform); Muramyldipeptide (L-D isomer, active);

Muramyl dipeptide; MDP

Product Information

Form Lyophilized powder

CAS No. 53678-77-6

Molecular

C19H32N4O11

Formula

Molecular

492.5

Weight

Concentration Working concentration: 10 ng - 10 μg/ml

Specificity NOD2 agonist

Solubility 10 mg/ml in water

Storage and Shipping Information

Storage Store at -20°C. Upon resuspension, aliquote MDP and store at -20°C.

Stability Product is stable 6 months at -20°C when properly stored. Avoid repeated freeze-thaw cycles.

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