

N-Acetyl muramyl-L-alanyl-D-isoglutamine hydrate (Muramyl Dipeptide: MDP)

Catalog # 9065

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION:	<i>Mycobacterium tuberculosis</i> , the main component in Complete Freund's Adjuvant, is used to up-regulate the Th1 immune response in animals. Muramyl dipeptide (MDP) is an immunoreactive synthetic peptide which mimics the active component in the cell wall of <i>Mycobacterium tuberculosis</i> (1).
APPLICATION:	Use as an adjuvant for immunization to produce antibodies and develop adjuvant-induced arthritis and collagen-induced arthritis in rats (2).
QUANTITY:	2 mg
FORM:	Lyophilized powder
MOLECULAR WEIGHT:	492.48
PURITY:	>98% by thin layer chromatography
STORAGE:	4°C in the dark for lyophilized form and -20°C for solution form (Avoid multiple freeze/thaw cycles).
STABILITY:	1 year in lyophilized form
NOTES:	N/A
REFERENCES:	

1. F. Ellouz, A. Adam, R. Ciorbaru, E. Lederer, Minimal structural requirements for adjuvant activity of bacterial peptidoglycan derivatives. *Biochem Biophys Res Commun* **59**, 1317-25 (1974).
2. S Kleinau, H Erlandsson, L. Klareskog. Percutaneous exposure of adjuvant oil causes arthritis in DA rats. *Clin Exp Immunol* **96**:281-284, 1994.