

N-Acetylmuramyl-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 TLC
STORAGE TEMPERATURE:	4°C in the dark for lyophilized form and -20°C for solution (Avoid multiple freeze/thaw cycles).
STABILITY:	1 year in lyophilized form
REFERENCES:	<ol style="list-style-type: none">1. Ellouz F, Adam A, Ciobaru R, Lederer E. Minimal structural requirements for adjuvant activity of bacterial peptido glycan derivatives. <i>Biochem. Biophys. Res. Commun.</i> 1974; 59: 1317-25.2. S Kleinau, H Erlandsson, L. Klareskog. Percutaneous exposure of adjuvant oil causes arthritis in DA rats. <i>Clin Exp Immunol</i> 96:281-284, 1994.