

## Cyclic di-IMP (sodium salt)

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Cyclic di-IMP (sodium salt) (c-di-IMP) is a synthetic second messenger structurally related to the bacterial second messengers cyclic di-GMP and cyclic di-AMP . C-di-IMP has adjuvant properties when co-administered with antigens in vitro and by mucosal routes in vivo. C-di-IMP enriches the population of MHC class I and II, CD80, CD86, CD40, and CD54 positive dendritic cells derived from murine bone marrow. It also stimulates macrophages at 500 ng/ml. Mice immunized with $\beta$ -galactosidase ( $\beta$ -gal) plus c-di-IMP through the intranasal route show a humoral immune response, evidenced by an increase in IgG titers up to 2-fold compared to mice immunized with $\beta$ -gal alone. Mice immunized with $\beta$ -gal plus c-di-IMP also exhibit a Th1/Th2 response, indicating that the adjuvant activity of c-di-IMP leads to a cellular immune response as well.
Targets(IC50)	Others

## Solubility Information

Solubility	H2O: 50 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286

E\_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481