

Cyclic di-IMP (sodium salt) Biochemical

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CATALOG #
AAA227248

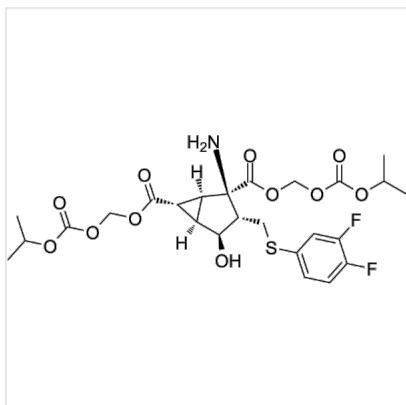
PRODUCT SYNONYMS

Cyclic di-IMP (sodium salt); Cyclic di-IMP (sodium salt) biochemical

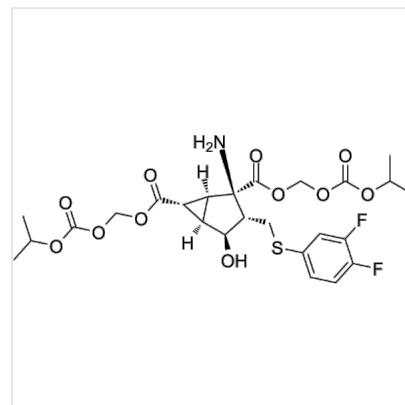
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	H ₂ O: 50 mg/mL <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
LY3027788, CAS 1377615-76-3



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ADDITIONAL INFORMATION

Related Product Information for Cyclic di-IMP (sodium salt) biochemical	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.
References	- Witkin JM, et, al. Comparative Effects of LY3020371, a Potent and Selective Metabotropic Glutamate (mGlu) 2/3 Receptor Antagonist, and Ketamine, a Noncompetitive N-Methyl-d-Aspartate Receptor Antagonist in Rodents: Evidence Supporting the Use of mGlu2/3 Antagonists, for the Treatment of Depression. J Pharmacol Exp Ther. 2017 Apr;361(1):68-86. - Witkin JM, et, al. mGlu2/3 receptor antagonism: A mechanism to induce rapid antidepressant effects without ketamine-associated side-effects. Pharmacol Biochem Behav. 2020 Mar;190:172854.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/cyclic-di-imp-sodium-salt/227248>