
Product Data Sheet

Product Name: c-Di-GMP sodium salt

Cat. No.: GC50292

Chemical Properties

Cas. No.

SMILES O=P(O[C@H]1[C@H]([C@H](N6C=NC7=C6N=C(NC7=O)N)O[C@@H]1CO2)O)(O[Na])OC[C@@H]3[C@H]([C@H]([C@H](N4C=NC5=C4N=C(NC5=O)N)O3)O)OP2(O[Na])=O

Formula C₂₀H₂₂N₁₀Na₂O₁₄P₂ M.Wt 734.37

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Endogenous STING and DDX41 agonist; mediates DDX41-STING interaction. Activates STING-dependent IFN-β production in mouse and human cells. Also induces an antitumor response in a lung B16-10 melanoma mouse model, when administered intravenously within YSKO5-liposomes. This product is sold in units of 730μg, equivalent to 1μmol.

Parvatiyar et al (2012) The helicase DDX41 recognizes the bacterial secondary messengers cyclic di-GMP and cyclic di-AMP to activate a type I IF. immune response. Nat.Immunol. 13 1155 PMID:23142775 |Burdette et al (2011) STING is a direct innate immune sensor of cyclic di-GMP. Nature 478 515 PMID:21947006 |Nakamura et al (2015) Liposomes loaded with a STING pathway ligand, cyclic di-GMP, enhance cancer immunotherapy against metastatic melanoma. J.Control Release 216 149 PMID:26282097

Caution: Product has not been fully validated for medical applications. For research use only.

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