

Product Data Sheet

Product Name: STING Agonist 1a

Cat. No.: GC48110

Chemical Properties

Cas. No. 652142-94-4

SMILES C1C1=NC2=C(N3C1=NN=C3C4=C(Cl)N=C5C=CC(OC)=CC5=C4)C=CC=C2

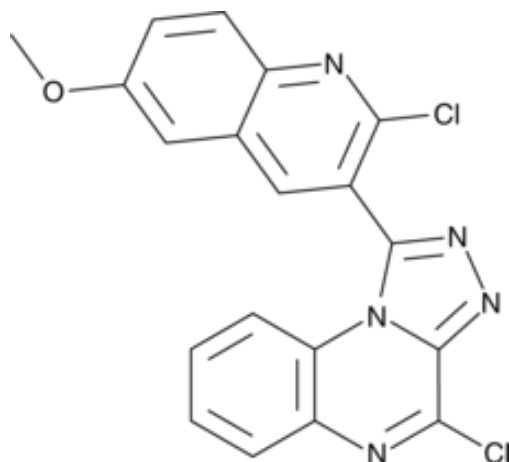
Formula C₁₉H₁₁Cl₂N₅O M.Wt 396.2

Solubility DMF: slightly soluble, DMSO: slightly soluble, PBS (pH 7.2): slightly soluble
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

STING agonist 1a is an agonist of stimulator of interferon genes (STING).¹ It induces expression of an IRF-inducible SEAP reporter gene in a cell-based assay (EC₅₀ = 16.77 μM). STING agonist 1a (12.5-100 μM) induces expression of IFN-β, IL-6, and chemokine (C-X-C motif) ligand 10 (CXCL10) in THP-1 cells, an effect that can be reversed by STING knockout or the STING inhibitor H-151.

1. Hou, H., Yang, R., Liu, X., et al. Discovery of triazoloquinoline as novel STING agonists via structure-based virtual screening. *Bioorg. Chem.* 100103958(2020)

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

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