

Product Data Sheet

Product Name: STING Agonist C11

Cat. No.: GC45570

Chemical Properties

Cas. No. 875863-22-2

SMILES O=C(NC(NC)=O)C(SC1=NN=C(C2=CC=C(C)C=C2)O1)C3=CC=CC=C3

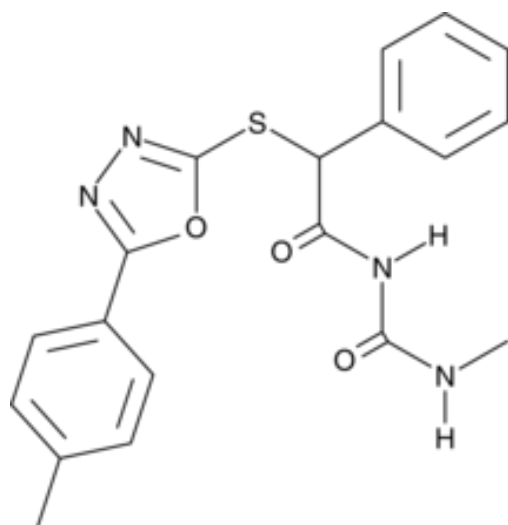
Formula C₁₉H₁₈N₄O₃S M.Wt 382.4

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

STING agonist C11 is an agonist of the stimulator of interferon genes (STING) pathway.¹ It induces secretion of type I IFN from THF and MM6 cells when used at a concentration of 50 µM. STING agonist C11 induces phosphorylation of IFN regulatory factor 3 (IRF3) and increases expression of IFIT1 and viperin, but not IL-1β, IL-6, or IL-8 in THF cells in a STING-dependent manner. It reduces viral titers of chikungunya, Venezuelan equine encephalitis, o'nyong-nyong, Mayaro, and Ross River viruses grown in THF cells (EC₉₀s = 16.44, 16.7, 18.84, 25.19, and 22.57 µM, respectively), an effect

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

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that is dependent on the presence of STING and the IFN- α/β receptor (IFNAR).

References

1. Gall, B., Pryke, K., Abraham, J., et al. Emerging alphaviruses are sensitive to cellular states induced by a novel small-molecule agonist of the STING pathway. J. Virol. 92(6), e01913-01917 (2018).

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