

Product Data Sheet

Product Name: M04
Cat. No.: GC49673

Chemical Properties

Cas. No. 875158-73-9

SMILES O=S(C1=CC=C(C)C=C1)(C2=C(N(C)C)SC(S(=O)(C3CCCCC3)=O)=N2)=O

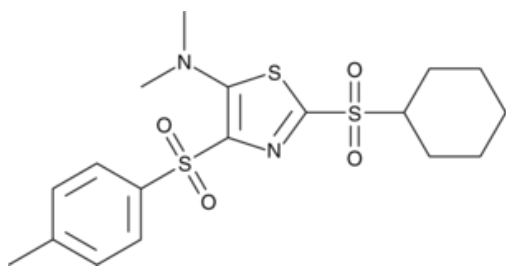
Formula C₁₈H₂₄N₂O₄S₃ M.Wt 428.6

Solubility Chloroform: soluble Storage -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

M04 is an agonist of stimulator of interferon genes (STING).¹ It induces IFN reporter gene expression in HEK293T cells expressing wild-type human STING but not in HEK293T cells expressing the R71H-G230A-R293Q (HAQ) human STING variant nor in mouse RAW 264.7 cells, indicating allelic- and species-dependent activities, at 75 µM. M04 induces the production of TNF-α, IL-10, IL-1β, and IL-12p70 in human peripheral blood mononuclear cells (PBMCs). It increases the percentage of isolated human monocyte-derived dendritic cells expressing the MHC class II cell surface receptor HLA-DR and the co-stimulatory molecules CD40, CD80, and CD86, as well as increases T cell cross-priming of the same cells in an *ex vivo* assay, when used at a concentration of 50 µM.

1. Abraham, J., Botto, S., Mizuno, N., et al. Characterization of a novel compound that stimulates STING-mediated innate immune activity in an allele-specific manner. *Front. Immunol.* 11:1430 (2020)

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

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