For Research Use Only

RU.521

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Catalog Number: CM01580

产品信息

Catalog Number:
CM01580

CAS号:
2262452-06-0

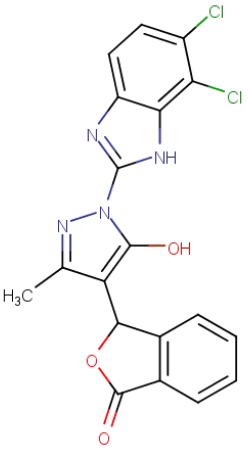
分子式:
$C_{19}H_{12}Cl_2N_4O_3$

主要靶点:
cGAS|DNA

主要通路:
DNA 损伤和修复|免疫与炎症

分子量:
415.23

溶解度:
DMSO:125 mg/mL (301.04 mM)



靶点活性

dsDNA:700 nM

体内活性

将初代BMDMs处理RU.521或其类似物，可减少小鼠IFNB1表达，表明它们在抑制缺乏细胞质DNA外切酶的细胞中固有的、构成性激活的I型干扰素表达方面的有效性。

动物实验

the chronically elevated levels of cytokines observed in Trex1 null mice are a consequence of constitutively activated cGAS, due to the inability to eliminate aberrantly localized self-DNA. We harvested BMDMs from 6–8-week old Trex1 ?/? mice, treated them with each compound, and measured expression levels of IFNB1 by quantitative reverse transcription PCR (qRT-PCR). Treatment of primary BMDMs with RU.521 or its analogs reduced IFNB1 expression, indicating their effectiveness in suppressing intrinsic DNA-dependent, constitutively-activated type I interferon expression in cells deficient of a cytoplasmic DNA exonuclease.

细胞实验

Small-molecule compounds were serially diluted to concentrations spanning the range tested in the response curves were added to 6.7?×?10^5 RAW-Blue macrophages plated 16?h prior in 96-well dishes, then harvested 72?h after compound addition. ATP was measured using CellTiter Glo Viability Assay using 50? μ M Tamoxifen as a positive control for cytotoxicity. Viability values were generated using vehicle (DMSO) or the first dose as 100% and Tamoxifen as 0%. Outliers were removed.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice.

For technical support and original validation data for this product please contact
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