PRODUCT INFORMATION

Content:
- 10 mg BAY11-7082

Storage and stability:
- BAY11-7082 is provided as a translucent film and shipped at room temperature. Store at -20 °C. Solid product is stable for 1 year at -20 °C.
- Upon resuspension, BAY11-7082 should be aliquoted and stored at -20 °C. Avoid repeated freeze-thaw cycles. Resuspended product is stable for 3 months at -20 °C when properly stored.

Quality control:
- Purity: ≥97% (UHPLC)
- The absence of bacterial contamination (e.g., lipoproteins and endotoxins) has been confirmed using HEK-Blue™ TLR2 and HEK-Blue™ TLR4 cells.
- The biological activity has been confirmed using cellular assays.

DESCRIPTION

Bay 11-7082 is an irreversible inhibitor of TNF-α-induced IκB-α phosphorylation resulting in the inactivation of NF-κB1. TNF-α-dependent effects of NF-κB are important for TLR expression and cytokine production2,3.

CHEMICAL PROPERTIES

CAS number: 19542-67-7
Synonym: (E)-3-(4-Methylphenylsulfonyl)-2-propenenitrile
Formula: C10H9NO2S
Molecular weight: 207.3
Solubility: 25 mg/ml in DMSO and 15 mg/ml in ethanol

METHODS

Preparation of stock solution (50 mM)
1. Add 965 μl DMSO to 10 mg BAY11-7082 vial.
2. Vortex until completely resuspended.
3. Prepare aliquots of BAY11-7082 and store at -20 °C.
4. Once BAY11-7082 is resuspended, further dilutions can be prepared using aqueous buffers.

Working concentration: 1 - 10 µM for cell culture assays

PROTOCOLS

For reference only; as described in the indicated publications.

Cell Culture Assay
Cells: Bone marrow-derived macrophages
Working concentration: 1 - 10 µM
Incubation time: 30 min - 3 h
Method: ELISA

Cell Culture Assay
Cells: NCI-H1703 cells non-small cell lung carcinoma cell line
Working concentration: 8 µM
Incubation time: 12 h
Method: Cell proliferation


RELATED PRODUCTS

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<tr>
<td>Triptolide</td>
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