BAY11-7082
IkB-α Inhibitor
Catalog code: trl-b82
https://www.invivogen.com/bay11-7082
For research use only
Version 20E04-MM

PRODUCT INFORMATION
Contents
• 10 mg BAY11-7082

Storage and stability
- BAY11-7082 is shipped at room temperature. Upon receipt, store at -20 °C. Solid product is stable for 1 year at -20 °C.
- Upon resuspension, prepare aliquots of BAY11-7082 and store at -20 °C. Avoid repeated freeze-thaw cycles. Resuspended product is stable for 3 months at -20 °C when properly stored.

Quality control
- Purity: ≥95% (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 IkB-α phosphorylation resulting in the inactivation of NF-κB. TNF-α-dependent effects of NF-κB are important for TLR expression and cytokine production. Moreover Bay11-7082 selectively inhibits NLRP3 inflammasome activity in macrophages independent of their inhibitory effect on NF-κB activity.

CHEMICAL PROPERTIES
CAS number: 19542-67-7
Synonym: (E)-3-(4-Methylphenylsulfonyl)-2-propenenitrile
Formula: C10H9NO2S
Molecular weight: 207.25 g/mol
Solubility: 25 mg/ml in DMSO and 15 mg/ml in ethanol
Structure:

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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<td>NF-κB inhibitor</td>
<td>trl-dex</td>
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<tr>
<td>Resveratrol</td>
<td>NF-κB inhibitor</td>
<td>trl-resv</td>
</tr>
</tbody>
</table>