



LKT Laboratories, Inc.

**BAY 11-7082**

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## Product Information

**Product ID** B030966

**CAS No.** 19542-67-7

**Chemical Name** 3-[(4-methylphenyl)sulfonyl]-(2E)-propenenitrile

**Synonym**

**Formula** C<sub>10</sub>H<sub>9</sub>NO<sub>2</sub>S

**Formula Wt.** 207.25

**Melting Point**

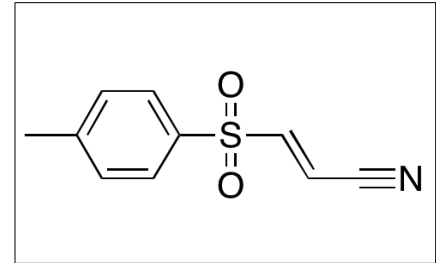
**Purity** ≥98%

**Solubility** Soluble in DMSO (>25 mg/ml), ethanol (15 mg/ml), methanol, dichloromethane, DMF (~25 mg/ml), and 1:3 DMF:PBS (pH 7.2) (~0.25 mg/ml). Insoluble in water and sparingly soluble in

**Store Temp** 4° C

**Ship Temp** Ambient

**Description** BAY 11-7082 is an inhibitor of I kappa B alpha phosphorylation and degradation. Treatment of multiple myeloma cells with BAY 11-7082 has been shown to induce rapid swelling followed by disintegration of the cell body. Studies have shown that BAY 11-7082 inhibits not only NF-kB, but in addition inhibits many components of inflammatory signaling pathways including PI3K/Akt/IKK/NFkB, ERK/JNK/AP-1, TBK1/IRF-3, and Jak-2/STAT-1. BAY 11-7082 has also been found to target the NLRP3 inflammasome pathway at many levels.



**Bulk quantities available upon request**

Product ID	Size
B030966	5 mg
B030966	10 mg
B030966	25 mg
B030966	100 mg

**References** Goffi F, Boroni F, Benarese M, et al. The inhibitor of I kappa B alpha phosphorylation BAY 11-7082 prevents NMDA neurotoxicity in mouse hippocampal slices. *Neurosci Lett.* 2005 Apr 4;377(3):147-151. PMID: 15755516.

Rauert-Wunderlich H, Siegmund D, Maier E, et al. The IKK inhibitor BAY 11-7082 induces cell death independent from inhibition of activation of NFkB transcription factors. *PLoS One.* 2013;8(3):e59292. PMID: 23527154.

Strickson S, Campbell DG, Emmerich CH, et al. The anti-inflammatory drug BAY 11-7082 suppresses the MyD88-dependent signaling network by targeting the ubiquitin system. *Biochem J.* 2013 May 1;451(3):427-437. PMID: 23441730.

Lee J, Rhee MH, Kim E, et al. BAY 11-7082 is a broad-spectrum inhibitor with anti-inflammatory activity against multiple targets. *Mediators Inflamm.* 2012;2012:416036. PMID: 27745523.

Juliana C, Fernandes-Alnemri T, Wu J, et al. Anti-inflammatory compounds parthenolide and BAY 11-7082 are direct inhibitors of the inflammasome. *J Biol Chem.* 2010 Mar 26;285(13):9792-9802. PMID: 20093358.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.