



LKT Laboratories, Inc.

BAY 11-7082

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lctlabs.com
Web: lctlabs.com

Product Information

Product ID B030966

CAS No. 19542-67-7

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

Synonym (E)-3-(p-Toluenesulfonyl)acrylonitrile

Formula C₁₀H₉NO₂S

Formula Wt. 207.25

Melting Point

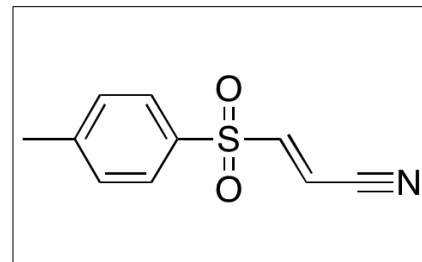
Purity ≥98%

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 aqueous buffers.

Store Temp -20°C

Ship Temp Ambient

Description BAY 11-7082 is an inhibitor of IκappaBα 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-κB, but in addition inhibits many components of inflammatory signaling pathways including PI3K/Akt/IKK/NFκB, 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.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
B030966	5 mg	\$60.10
B030966	10 mg	\$90.30
B030966	25 mg	\$165.40
B030966	100 mg	\$450.80

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 NFκB 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.