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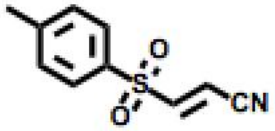
E2 Ubiquitin Conjugating Enzyme Inhibitor – BAY11-7082

Chemical Name: (E)-3-tosylacrylonitrile



Molecular Weight:	207.25
Formula:	$C_{10}H_9NO_2S$
Purity:	≥98%
CAS#:	19542-67-7
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

BAY11-7082 is a potent and selective E2 ubiquitin (Ub) conjugating enzyme inhibitor. It inhibits the conjugation of Ub to a range of E2 enzymes and inhibits E2 enzyme mediated IκBα phosphorylation and indirectly decreases NF-κb activity. BAY11-7082 also reversibly activates MAPK signaling and induces apoptosis of leukemic T cell and B-cell lymphoma cell lines.

How to Use:

In vitro: BAY11-7082 was used at 10-20 μM final concentration in various assays.

In vivo: n/a

Reference:

1. Pierce JW, et al. Novel inhibitors of cytokine-induced IkappaBalpha phosphorylation and endothelial cell adhesion molecule expression show anti-inflammatory effects in vivo. (1997) J Biol Chem. 272(34):21096-103.
2. Mori N, et al. Bay 11-7082 inhibits transcription factor NF-kappaB and induces apoptosis of HTLV-I-infected T-cell lines and primary adult T-cell leukemia cells. (2002) Blood. 100(5):1828-34.
3. Strickson S, et al. The anti-inflammatory drug BAY 11-7082 suppresses the MyD88-dependent signalling network by targeting the ubiquitin system. (2013) Biochem J. 451(3):427-37.