

Product Name: Bay 11-7085 Revision Date: 01/10/2021

Product Data Sheet

Bay 11-7085

Cat. No.: B3033

CAS No.: 196309-76-9
Formula: C13H15NO2S

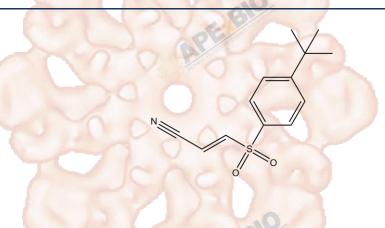
M.Wt: 249.33

Synonyms:

Target: Immunology/Inflammation

Pathway: IkB/IKK

Storage: Store at -20°C



Solvent & Solubility

≥12.45 mg/mL in DMSO

Reacting conditions:

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	4.0107 mL	20.0537 mL	40.1075 mL
	5 mM	0.8021 mL	4.0107 mL	8.0215 mL
	10 mM	0.4011 mL	2.0054 mL	4.0107 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	NK-κB activation inhibitor	NK-κB activation inhibitor		
IC ₅₀ & Target	10 μM (IκBα phosphorylation)			
	Cell Viability Assay			
	Cell Line:	ECSCs and NESCs		
	Preparation method:	The solubility of this compound in DMSO is > 12.5 mg/mL. General tips for		
In Vitro		obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes		
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored		
		below - 20 °C for several months.		

 $0.01 \sim 10 \ \mu M;$

	Applications:	In ECSCs and NESCs, BAY 11-7085 significantly inhibited cell viability in a			
		dose-dependent manner. At the dose of 10 μM , ECSCs and NESCs treated			
		with BAY 11-7085 showed 66.1% and 54.7% decreases in cell viability,			
		respectively. In addition, according to the results of the BrdU incorporation			
		assay, at the dose of 10 μM , BAY 11-7085 significantly inhibited the BrdU			
	210	incorporation of ECSCs in a dose-dependent manner (53.2% decrease),			
	SE Julie He drive	whereas BAY 11-7085 only showed a weak inhibitory effect on the BrdU			
	2000 200 miles	incorporation of NESCs (38.2% decrease). Therefore, BAY 11-7085 showed			
	Zo.	stronger inhibitory effects on the cell viability and the cell proliferation of ECSCs			
		than on those of NESCs.			
	Animal experiment				
In Vivo	Animal models:	Rat model of pneumococcal meningitis			
	Dosage form:	20 mg; i.p.			
	Applications:	In rat model of pneumococcal meningitis, BAY 11-7085 significantly reduced			
	810	meningitis-associated loss of cerebrovascular autoregulation. Besides, also			
	OE Sugar Inc.	BAY 11-7085 also significantly reduced increases in CSF WBCs, ICP and BBB			
	and the state of t	permeability caused by pneumococcal infection. The results of Western blot			
		analysis showed BAY 11-7085 inhibited meningitis-associated increase in			
		NF-κB activity.			
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may			
		slightly differ with the theoretical value. This is caused by an experimental			
		system error and it is normal.			

Product Citations

1. Wang Y, Li Y, et al. "The cerebral cavernous malformation disease causing gene KRIT1 participates in intestinal epithelial barrier maintenance and regulation." FASEB J. 2018 Sep 25:fj201800343R.PMID:30252535

See more customer validations on www.apexbt.com.

References

- [1]. Nasu K1, Nishida M, Ueda T, Yuge A, Takai N, Narahara H. Application of the nuclear factor-kappaB inhibitor BAY 11-7085 for the treatment of endometriosis: an in vitro study. Am J Physiol Endocrinol Metab. 2007 Jul;293(1):E16-23
- [2]. Koedel U, Bayerlein I, Paul R, Sporer B, Pfister HW. Pharmacologic interference with NF-kappaB activation attenuates central nervous system complications in experimental Pneumococcal meningitis. J Infect Dis. 2000 Nov;182(5):1437-45.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

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