

Product Name: IKK-16 (IKK Inhibitor VII)

Revision Date: 06/25/2021

### **Product Data Sheet**

# **IKK-16 (IKK Inhibitor VII)**

Cat. No.: B1586

CAS No.: 873225-46-8
Formula: C28H29N5OS

M.Wt: 483.63

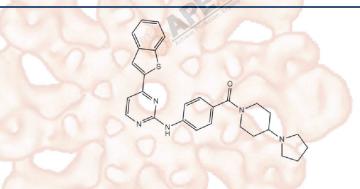
Synonyms:

In Vitro

Target: Immunology/Inflammation

Pathway: IkB/IKK

Storage: Store at -20°C



## Solvent & Solubility

≥23.05 mg/mL in DMSO; ≥11.3 mg/mL in EtOH with ultrasonic; insoluble in H2O

Decreasing	Mass			
	Solvent	1mg	5mg	10mg
Preparing	Concentration			
Stock Solutions	1 mM	2.0677 mL	10.3385 mL	20.6770 mL
E Be the United	5 mM	0.4135 mL	2.0677 mL	4.1354 mL
	10 mM	0.2068 mL	1.0 <mark>3</mark> 38 mL	2.0677 mL

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

## **Biological Activity**

Shortsummary	Selective IkB kinase inhibitor		
IC <sub>50</sub> & Target	40 nM (IKK-2), 70 nM (IKK complex), 200 nM (IKK-1)		
	Cell Viability Assay		
	Cell Line;	HUVEC cells	
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining	
In Vitro		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.	
	Reacting conditions:	0.3-2μM	
		4 Lynny anaylet ages	

	Applications:	IKK-16 (IKK Inhibitor VII) inhibited IKK2 by the blockade of IκBα degradation
		and suppressed TNFα-stimulated expression of the adhesion molecules
		E-selectin, ICAM-1, and VCAM-1 in HUVEC cells. Moreover, IKK-16 also
		showed activity in the IFN $\gamma$ -induced expression of the MHC molecules $\beta2$
	SI THE STATE OF TH	microglobulin and HLA-DR, but its potency in these assays is 4- to 10-fold
	Expose the	weaker than the adhesion molecules assay.
	Animal experiment	BOD Let victor
	Animal models:	Rat model; thioglycollate-induced peritonitis model in the mouse
	Dosage form:	30 mg/kg, subcutaneous injection (sc) or oral administration for 5 h; or 10
		mg/kg, sc
	Applications:	IKK-16 (IKK Inhibitor VII) inhibited TNFα release into plasma upon
In Vivo		LPS-challenge in the rat model. Moreover, IKK-16 (IKK Inhibitor VII, 10 mg/kg,
		sc) resulted in a maximal inhibition of neutrophil extravasation in
		thioglycollate-induced peritonitis model.
	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.
	ASOMA.	

### **Product Citations**

1. Robeson AC, Lindblom KR, et al. "Dimer-specific immunoprecipitation of active caspase-2 identifies TRAF proteins as novel activators." EMBO J. 2018 Jun 6. pii: e97072.PMID:29875129

See more customer validations on www.apexbt.com.

#### References

[1] Waelchli R1, Bollbuck B, Bruns C, Buhl T, Eder J, Feifel R, Hersperger R, Janser P, Revesz L, Zerwes HG, Schlapbach A.Design and preparation of 2-benzamido-pyrimidines as inhibitors of IKK. Bioorg Med Chem Lett. 2006 Jan 1;16(1):108-12. Epub 2005 Oct 19.

#### 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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