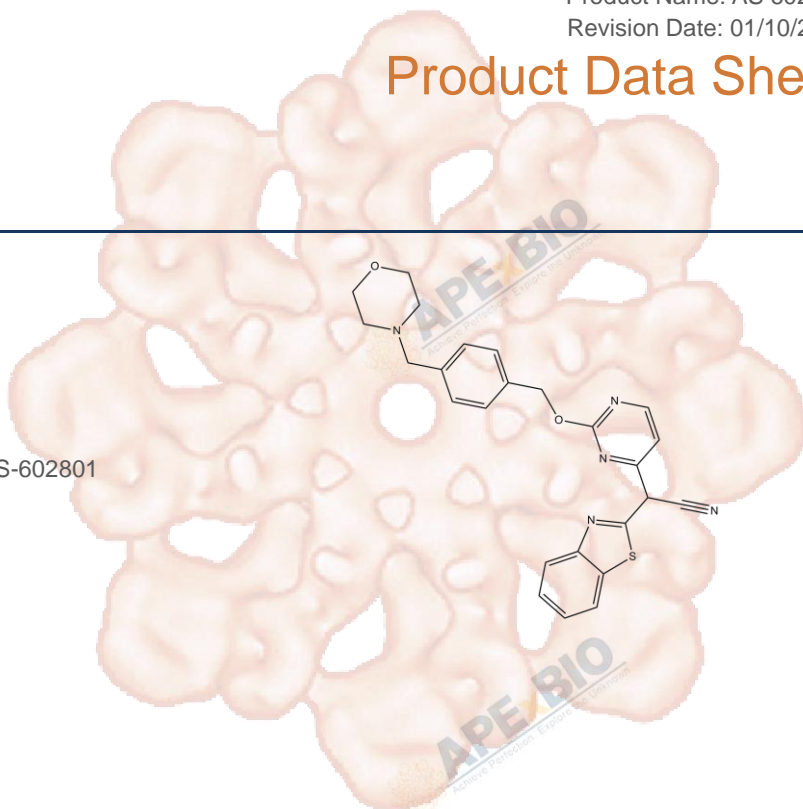


# Product Data Sheet

## AS 602801

<b>Cat. No.:</b>	A3189
<b>CAS No.:</b>	848344-36-5
<b>Formula:</b>	C <sub>25</sub> H <sub>23</sub> N <sub>5</sub> O <sub>2</sub> S
<b>M.Wt:</b>	457.55
<b>Synonyms:</b>	Bentamapimod;AS602801;AS-602801
<b>Target:</b>	MAPK Signaling
<b>Pathway:</b>	JNK
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble in H<sub>2</sub>O; insoluble in EtOH; ≥11.45 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.1856 mL	10.9278 mL	21.8555 mL
	5 mM		0.4371 mL	2.1856 mL	4.3711 mL
	10 mM		0.2186 mL	1.0928 mL	2.1856 mL

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

### Biological Activity

Shortsummary

Jun Kinase Inhibitor

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

Cell Line:	PANC-1, A549, A2780 cell lines
Preparation method:	The solubility of this compound in DMSO is >11.5 mg/mL. General tips for 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.
Reacting conditions:	7.5 μM, 3 days

	Applications:	AS602801 had selective cytotoxic activity against neoplastic cells and had anticancer effects. AS602801 treatment induced three serum-cultured human cancer cell lines (PANC-1, pancreatic cancer; A594, lung cancer; A2780, ovarian cancer) death and accordingly decreased the number of viable cells.
In Vivo	<b>Animal experiment</b>	
	Animal models:	BALB/cAJcl-nu/nu mice xenograft (PANC-1 CSLCs (primary tumors))
	Dosage form:	ip, 40 mg/kg daily for 10 consecutive days.
	Applications:	Systemic AS602801 treatment reduced the proportion of tumor-initiating cells within the primary tumors (PANC-1 CSLCs).
	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

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

- [1] Olusegun Williams, et al. Discovery of dual inhibitors of the immune cell PI3Ks p110 $\delta$  and p110 $\gamma$ : a prototype for new anti-inflammatory drugs. Chem Biol. 2010 Feb 26; 17(2): 123–134.
- [2] Masashi Okada, et al. The novel JNK inhibitor AS602801 inhibits cancer stem cells in vitro and in vivo. Oncotarget. 2016 May 10; 7(19): 27021–27032.

## 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 APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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.

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## APExBIO Technology

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