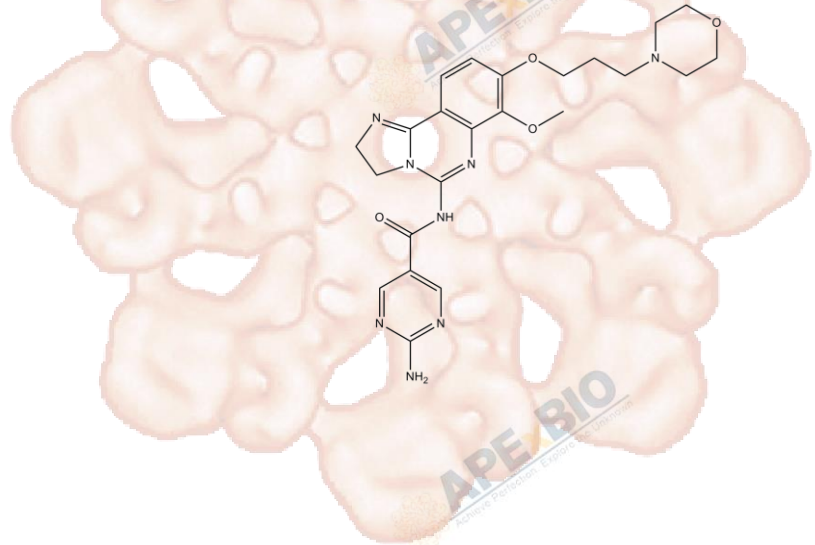


Product Data Sheet

BAY 80-6946 (Copanlisib)

Cat. No.:	B2178
CAS No.:	1032568-63-0
Formula:	C ₂₃ H ₂₈ N ₈ O ₄
M.Wt:	480.52
Synonyms:	
Target:	PI3K/Akt/mTOR Signaling
Pathway:	PI3K
Storage:	Store at -20°C



Solvent & Solubility

insoluble in DMSO; insoluble in H₂O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.0811 mL	10.4054 mL	20.8108 mL
	5 mM	0.4162 mL	2.0811 mL	4.1622 mL
	10 mM	0.2081 mL	1.0405 mL	2.0811 mL

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

Biological Activity

Shortsummary

PI3K inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	A panel of cancer cell lines
Preparation method:	The solubility of this compound in DMSO is limited. 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:	5 μM; 72 hrs

	Applications:	BAY 80-6946 showed significant anti-proliferative activity in a series of cancers cells exhibiting constitutively activated PI3K signaling. Several breast cancer, endometrial cancer and hematologic tumor cell lines were extremely sensitive to BAY 80-6946 (IC50 values < 10 nM).
In Vivo	Animal experiment	
	Animal models:	A rat KPL4 tumor xenograft model
	Dosage form:	0.5 ~ 6 mg/kg; i.v.; every 2 days for a total of 5 doses starting on day 14 after tumor cell implantation
	Applications:	On day 25 (i.e. 3 days after the last dose), BAY 80-6946 at doses of 0.5, 1, 3 and 6 mg/kg showed TGI rates of 77%, 84%, 99% and 100%, respectively. In addition, BAY 80-6946 at doses of 3 and 6 mg/kg resulted in complete tumor regression.
	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. Almohazey D, Lo YH, et al. "The ErbB3 receptor tyrosine kinase negatively regulates Paneth cells by PI3K-dependent suppression of Atoh1." Cell Death Differ. 2017 May;24(5):855-865.PMID:28304405

See more customer validations on www.apexbt.com.

References

[1]. Liu N, Rowley BR, Bull CO, Schneider C, Haegebarth A, Schatz CA, Fracasso PR, Wilkie DP, Hentemann M, Wilhelm SM, Scott WJ, Mumberg D, Ziegelbauer K. BAY 80-6946 is a highly selective intravenous PI3K inhibitor with potent p110 α and p110 δ activities in tumor cell lines and xenograft models. Mol Cancer Ther. 2013 Nov;12(11):2319-30.

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.

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