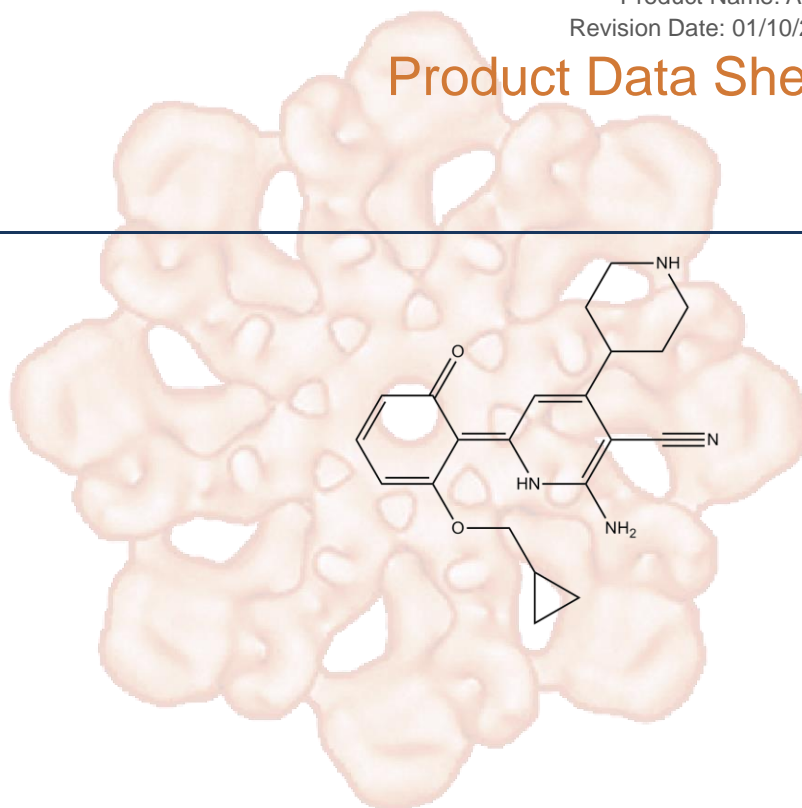


Product Data Sheet

ACHP

Cat. No.:	B5638
CAS No.:	406208-42-2
Formula:	C ₂₁ H ₂₄ N ₄ O ₂
M.Wt:	364.44
Synonyms:	
Target:	Immunology/Inflammation
Pathway:	IκB/IKK
Storage:	Store at -20°C



Solvent & Solubility

<7.29mg/ml in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass	1mg	5mg	10mg
	1 mM		2.7439 mL	13.7197 mL	27.4394 mL
	5 mM		0.5488 mL	2.7439 mL	5.4879 mL
	10 mM		0.2744 mL	1.3720 mL	2.7439 mL

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

Biological Activity

Shortsummary

IκB kinase inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	U266 and NCUMM-2 myeloma cell lines
Preparation method:	The solubility of this compound in DMSO is > 10 mM. 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:	0-50 μM; 8 h
Applications:	In U266 and NCUMM-2 myeloma cell lines, ACHP (>10 μmol/L) inhibited the

DNA binding activity of NF- κ B after only 4 hours. ACHP also efficiently inhibited the phosphorylation of I κ B and p65 at 1 μ mol/L after 20 minutes treatment. ACHP (10 μ mol/L, 24h) also inhibited cell cycle progression and induced apoptosis. In NCUMM-2 cells, ACHP (10 μ mol/L) efficiently induced apoptosis (15.8%) and a higher concentration of ACHP (50 μ mol/L) induced apoptosis in 43.7% of the cells.

In Vivo

Animal experiment

Applications:

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Sanda T, Iida S, Ogura H, Asamitsu K, Murata T, Bacon KB, Ueda R, Okamoto T. Growth inhibition of multiple myeloma cells by a novel I κ B kinase inhibitor. Clin Cancer Res. 2005 Mar 1;11(5):1974-82.

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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