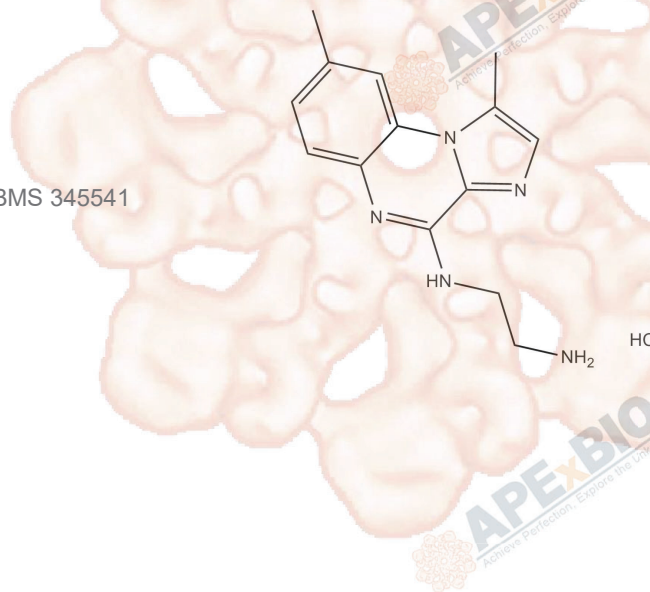


BMS345541 hydrochloride

Cat. No.:	A3248
CAS No.:	547757-23-3
Formula:	C ₁₄ H ₁₈ CIN ₅
M.Wt:	291.78
Synonyms:	BMS-345541 hydrochloride; BMS 345541 hydrochloride
Target:	Immunology/Inflammation
Pathway:	IκB/IKK
Storage:	Store at -20°C



Solvent & Solubility

insoluble in DMSO, ≥ 60 mg/mL in H₂O, insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass Concentration	1mg	5mg	10mg
			1 mM	3.4272 mL	17.1362 mL
		5 mM	0.6854 mL	3.4272 mL	6.8545 mL
		10 mM	0.3427 mL	1.7136 mL	3.4272 mL

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

Biological Activity

Shortsummary

IKK inhibitor, highly selective

IC₅₀ & Target

4 μM (IKK-1), 0.3 μM (IKK-2)

In Vitro

Cell Viability Assay

Cell Line: THP-1 monocytic cells

Preparation method: Soluble in DMSO. 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: 1 ~ 100 μM or 0.04 ~ 25 μM; 60 mins

Applications: BMS-345541 inhibited the TNFα-stimulated phosphorylation of IκBα in a

dose-dependent manner (IC50 = 4 μ M), and reduced the stimulated production of TNF α , IL-1 β , IL-8 and IL-6 (IC50 = 1 ~ 5 μ M).

Animal experiment

Animal models: Female BALB/c mice

Dosage form: 2 mg/kg (1 mL/kg), i.v.; 10 mg/kg (5 mL/kg), p.o.

Applications: Oral administration of BMS-345541 to mice resulted in prolonged serum drug levels, with concentrations sustained at or above 1 μ M for many hrs. BMS-345541 exhibited 100% oral bioavailability. At the dose of 10 mg/kg, BMS-345541 inhibited the production of TNF α induced by LPS and exhibited 50% inhibition. At the dose of 100 mg/kg, BMS-345541 completely inhibited TNF α production.

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.

In Vivo

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Burke JR, Pattoli MA, Gregor KR, et al. BMS-345541 is a highly selective inhibitor of I kappa B kinase that binds at an allosteric site of the enzyme and blocks NF-kappa B-dependent transcription in mice. J Biol Chem, 2003, 278(3): 1450-1456.

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. 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.

APEX^xBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

