

Product Name: BMS-345541(free base)

Revision Date: 11/28/2023

Product Data Sheet

BMS-345541(free base)

Cat. No.: B4655

CAS No.: 445430-58-0 **Formula:** C14H17N5

M.Wt: 255.32

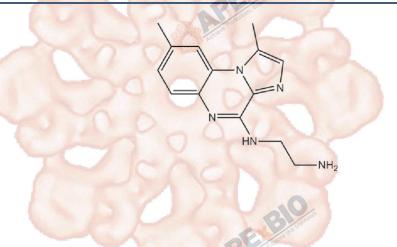
Synonyms:

In Vitro

Target: Chromatin/Epigenetics

Pathway: HDAC

Storage: Store at -20°C



Solvent & Solubility

insoluble in H2O; ≥70 mg/mL in DMSO; ≥2.49 mg/mL in EtOH with gentle warming and ultrasonic

| | Preparing Stock Solutions | Solvent Concentration | 1mg | 5mg | 10mg |
|--|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mM | 3.9167 mL | 19.5833 mL | 39.1665 mL |
| | | 5 mM | 0.7833 mL | 3.9167 mL | 7.8333 mL |
| | | 10 mM | 0.3917 mL | 1.9583 mL | 3.9167 mL |

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

Biological Activity

| Shortsummary | IKK-1/IKK-2 inhibitor,potent and selective | | |
|---------------------------|--|--|--|
| IC ₅₀ & Target | | | |
| | Cell Viability Assay | E Europe de Constitution de la C | |
| | Cell Line: 1500 ctre | THP-1 cells | |
| | Preparation method: | The solubility of this compound in DMSO is >70mg/mL. General tips for | |
| In Vitro | | 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: | 1-100μM for 1 h | |

| | Applications: | In THP-1 cells, only the stimulus-induced phosphorylation of IkB was inhibited | | |
|---------|--|---|--|--|
| | | by BMS-345541 whereas other signal transduction cascades were unaffected. | | |
| | | BMS-345541 inhibited IKK (IK B kinase) in cells in the micromolar range and | | |
| | | was effective in THP-1 cells at inhibiting the stimulated production of a number | | |
| | Cal Carton | of cytokines from THP-1 cells including TNF, IL-1, IL-8, and IL-6. | | |
| | Animal experiment | | | |
| | Animal models: | 18–22-g female BALB/c mice | | |
| | Dosage form: | 2mg/kg (1 ml/kg) intravenous bolus or 10 mg/kg (5 ml/kg) peroral gavage. | | |
| | Applications: | In BALB/c mice, BMS-345541 dose-dependently inhibited LPS | | |
| | (intraperitoneal)-induced serum TNF production in mice at doses in the | | | |
| In Vivo | | mg/kg range. Approximately 50% inhibition was observed at 10 mg/kg, near | | |
| | | complete inhibition of serum TNF was observed at a dose of 100 mg/kg | | |
| | | BMS-345541. | | |
| | Other notes: | Please test the solubility of all compounds indoor, and the actual solubility may | | |
| | The Unitroun | slightly differ with the theoretical value. This is caused by an experimental | | |
| | P Color, Explore | system error and it is normal. | | |

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Burke, J.R., 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): p. 1450-6.

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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