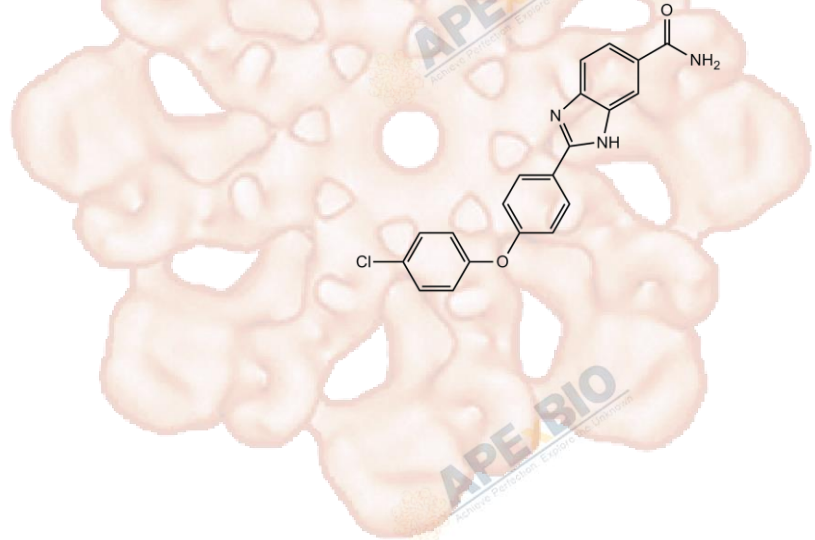


Product Data Sheet

BML-277

| | |
|------------------|---|
| Cat. No.: | B1236 |
| CAS No.: | 516480-79-8 |
| Formula: | C ₂₀ H ₁₄ ClN ₃ O ₂ |
| M.Wt: | 363.8 |
| Synonyms: | |
| Target: | Cell Cycle/Checkpoint |
| Pathway: | Chk |
| Storage: | Store at -20°C |



Solvent & Solubility

insoluble in H₂O; ≥18.2 mg/mL in DMSO; ≥2.72 mg/mL in EtOH with ultrasonic

In Vitro

| Preparing Stock Solutions | Solvent | Mass | | |
|---------------------------|----------------------|-----------|------------|------------|
| | | 1mg | 5mg | 10mg |
| | Concentration | | | |
| | 1 mM | 2.7488 mL | 13.7438 mL | 27.4876 mL |
| | 5 mM | 0.5498 mL | 2.7488 mL | 5.4975 mL |
| | 10 mM | 0.2749 mL | 1.3744 mL | 2.7488 mL |

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

Biological Activity

Shortsummary

Chk2 inhibitor, potent and highly selective

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: Human T-cells

Preparation method: The solubility of this compound in DMSO is > 18.2 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: 25 hrs

| | | |
|---------|--------------------------|---|
| | Applications: | BML-277 efficiently prevented T-cell populations from radiation-induced apoptosis in a concentration-dependent manner, with the EC50 value ranging from 3 to 7.6 μ M. |
| In Vivo | Animal experiment | |
| | Applications: | |

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Arienti KL1, Brunmark A, Axe FU, McClure K, Lee A, Blevitt J, Neff DK, Huang L, Crawford S, Pandit CR, Karlsson L, Breitenbucher JG. Checkpoint kinase inhibitors: SAR and radioprotective properties of a series of 2-arylbenzimidazoles. J Med Chem. 2005 Mar 24;48(6):1873-85.

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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