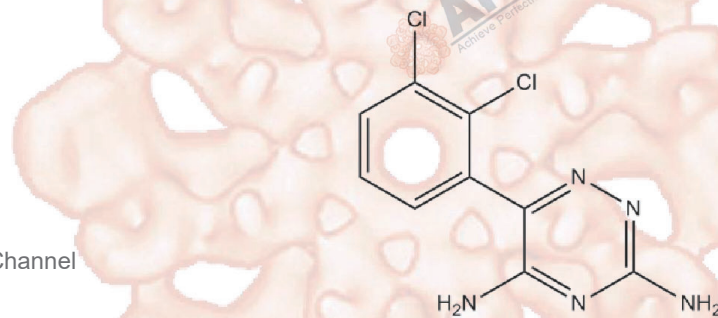


Product Data Sheet

Lamotrigine

| | |
|------------------|--|
| Cat. No.: | B2249 |
| CAS No.: | 84057-84-1 |
| Formula: | C ₉ H ₇ Cl ₂ N ₅ |
| M.Wt: | 256.09 |
| Synonyms: | |
| Target: | Membrane Transporter/Ion Channel |
| Pathway: | Sodium Channel |
| Storage: | Store at -20°C |



Solvent & Solubility

insoluble in H₂O; ≥12.3 mg/mL in DMSO; ≥2.18 mg/mL in EtOH with gentle warming and ultrasonic

| In Vitro | Preparing Stock Solutions | Mass | | | |
|----------|---------------------------|-----------------------|-----------|------------|------------|
| | | Solvent Concentration | 1mg | 5mg | 10mg |
| | | 1 mM | 3.9049 mL | 19.5244 mL | 39.0488 mL |
| | | 5 mM | 0.7810 mL | 3.9049 mL | 7.8098 mL |
| | | 10 mM | 0.3905 mL | 1.9524 mL | 3.9049 mL |

Please refer to the solubility information to select the appropriate solvent

Biological Activity

| | | |
|---------------------------|--|--|
| Shortsummary | 5-HT inhibitor, sodium channel blocker | |
| IC ₅₀ & Target | | |
| In Vitro | Cell Viability Assay | |
| | Preparation method: | |
| In Vivo | Animal experiment | |
| | Applications: | |

Product Citations

1. Blanchette AD, Grimm FA, et al. "Thorough QT/QTc in a Dish: An In Vitro Human Model That Accurately Predicts Clinical Concentration-QTc Relationships." Clin Pharmacol Ther. 2018 Oct 22. PMID:30346629

See more customer validations on www.apexbt.com.

References

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.

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