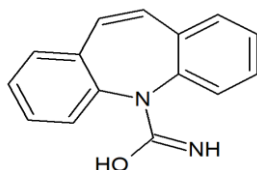


# Carbamazepine

**ALTERNATE NAME:** 5H-Dibenz[b,f]azepine-5-carboxamide  
CBZ

**CATALOG #:** B2401-50 50 mg  
B2401-250 250 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>15</sub>H<sub>12</sub>N<sub>2</sub>O

**MOLECULAR WEIGHT:** 236.27

**CAS NUMBER:** 298-46-4

**APPEARANCE:** White solid

**PURITY:** ≥98% by HPLC

**SOLUBILITY:** >20 mg/ml DMSO

**DESCRIPTION:** Carbamazepine is an inhibitor of neuronal voltage-gated Na<sup>+</sup> channels. It displays anticonvulsant activity and potentiates GABA-induced Cl<sup>-</sup> currents in HEK 293 cells expressing the GABAA receptor α1β2γ2 subtype combination. Can induce autophagy by inhibiting inositol synthesis. Also acts as an in vitro inducer of CYP3A4, the main human metabolizing enzyme present in the liver and intestine.

**STORAGE TEMPERATURE:** -20°C

**REFERENCES:** Lipkind, G.M., and Fozzard, H.A. (2010). Mol. Pharmacol. 78, 631-638

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

A-803467 (2559)  
Safinamide (B2022)  
Lamotrigine (B1234)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*