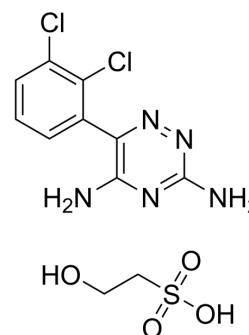


## Lamotrigine isethionate

Cat. No.:	HY-110032
CAS No.:	113170-86-8
Molecular Formula:	C <sub>11</sub> H <sub>13</sub> Cl <sub>2</sub> N <sub>5</sub> O <sub>4</sub> S
Molecular Weight:	382.22
Target:	Sodium Channel; Autophagy
Pathway:	Membrane Transporter/Ion Channel; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Lamotrigine (BW430C) isethionate is a potent and orally active anticonvulsant or antiepileptic agent. Lamotrigine isethionate selectively blocks voltage-gated Na<sup>+</sup> channels, stabilizing presynaptic neuronal membranes and inhibiting glutamate release. Lamotrigine isethionate can be used for the research of epilepsy, focal seizure, et al<sup>[1][2]</sup>.

### CUSTOMER VALIDATION

- Proc Natl Acad Sci U S A. 2023 Oct 10;120(41):e2309773120.
- JCI Insight. 2022 Aug 8;7(15):e160247.
- Cell Calcium. March 2022, 102527.
- Pharmacol Biochem Behav. 2018 May;168:43-50.
- Pharmacol Res Perspect. 2021 Oct;9(5):e00879.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

[1]. M J Leach, et al. Pharmacological studies on lamotrigine, a novel potential antiepileptic drug: II. Neurochemical studies on the mechanism of action. *Epilepsia*. Sep-Oct 1986;27(5):490-7.

[2]. Damianka P Getova, et al. A study of the effects of lamotrigine on mice using two convulsive tests. *Folia Med (Plovdiv)*. Apr-Jun 2011;53(2):57-62.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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