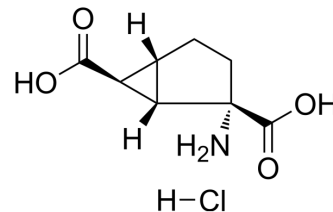


## Eglumegad hydrochloride

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-18941C  |
| Molecular Formula: | C <sub>8</sub> H <sub>12</sub> ClNO <sub>4</sub>   |
| Molecular Weight:  | 221.64   |
| Target:            | mGluR  |
| Pathway:           | GPCR/G Protein; Neuronal Signaling   |
| Storage:           | 4°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### BIOLOGICAL ACTIVITY

#### Description

Eglumegad (LY354740) hydrochloride is a highly potent and selective group II (mGlu2/3) receptor agonist with IC<sub>50</sub>s of 5 and 24 nM on transfected human mGlu2 and mGlu3 receptors, respectively. Eglumegad hydrochloride protects neurons from NMDA toxicity. Eglumegad hydrochloride has anxiolytic- and antipsychotic-like effects<sup>[1]</sup>.

### CUSTOMER VALIDATION

- Neurobiol Dis. 2020 Jun;139:104807.
- Front Pharmacol. 2020 Feb 28;11:183.
- Pharmacol Biochem Behav. 2023 Sep 14;231:173637.

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

### REFERENCES

- [1]. Boerner T, et al. The group II metabotropic glutamate receptor agonist LY354740 and the D2 receptor antagonist haloperidol reduce locomotor hyperactivity but fail to rescue spatial working memory in GluA1 knockout mice. *Eur J Neurosci*. 2017 Apr;45(7):912-
- [2]. Orlando R, et al. Levels of the Rab GDP dissociation inhibitor (GDI) are altered in the prenatal restraint stress mouse model of schizophrenia and are differentially regulated by the mGlu2/3 receptor agonists, LY379268 and LY354740. *Neuropharmacology*. 2014
- [3]. Procaccini C, et al. Reversal of novelty-induced hyperlocomotion and hippocampal c-Fos expression in GluA1 knockout male mice by the mGluR2/3 agonist LY354740. *Neuroscience*. 2013 Oct 10;250:189-200
- [4]. Lee Y, et al. The mGlu2/3 receptor agonist LY354740 suppresses immobilization stress-induced increase in rat prefrontal cortical BDNF mRNA expression. *Neurosci Lett*. 2006 May 8;398(3):328-32.

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

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