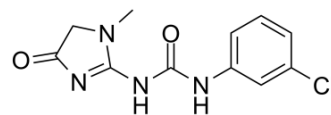


## Fenobam

|                    |   |       |          |
|--------------------|---|-------|----------|
| Cat. No.:          | HY-101478   |       |          |
| CAS No.:           | 57653-26-6  |       |          |
| Molecular Formula: | C <sub>11</sub> H <sub>11</sub> ClN <sub>4</sub> O <sub>2</sub> |       |          |
| Molecular Weight:  | 266.68  |       |          |
| Target:            | mGluR   |       |          |
| Pathway:           | GPCR/G Protein; Neuronal Signaling                              |       |          |
| Storage:           | Powder  | -20°C | 3 years  |
|                    |   | 4°C   | 2 years  |
|                    | In solvent  | -80°C | 6 months |
|                    |   | -20°C | 1 month  |



### BIOLOGICAL ACTIVITY

|                    |   |              |
|--------------------|---|--------------|
| Description        | Fenobam is a selective, orally active, and non-competitive <b>mGluR5</b> antagonist acting at an allosteric modulatory site ( $K_d$ values are 54 and 31 nM for rat and human recombinant mGlu5 receptors, respectively). Fenobam displays inverse agonist activity which blocks the mGlu5 receptor basal activity with an $IC_{50}$ of 84 nM. Fenobam exerts anxiolytic activity <sup>[1][2]</sup> . |              |
| $IC_{50}$ & Target | rat mGluR5  | human mGluR5 |
|                    | 54 nM (Kd)  | 31 nM (Kd)   |

### REFERENCES

- [1]. Porter RH, et al. Fenobam: a clinically validated nonbenzodiazepine anxiolytic is a potent, selective, and noncompetitive mGlu5 receptor antagonist with inverse agonist activity. *J Pharmacol Exp Ther.* 2005 Nov;315(2):711-21.
- [2]. Laura F, et al. The Metabotropic Glutamate Receptor 5 Negative Allosteric Modulator Fenobam: Pharmacokinetics, Side Effects, and Analgesic Effects in Healthy Human Subjects. *bioRxiv* 391383;

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

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