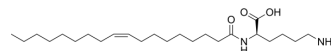





## Oleoyl-D-lysine

**Cat. No.:** HY-148708  
**CAS No.:** 2240164-55-8  
**Molecular Formula:** C<sub>24</sub>H<sub>46</sub>N<sub>2</sub>O<sub>3</sub>  
**Molecular Weight:** 410.63  
**Target:** iGluR  
**Pathway:** Membrane Transporter/Ion Channel; Neuronal Signaling  
**Storage:** Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Oleoyl-D-lysine is a selective Glycine Transporter-2 (GlyT2) inhibitor based on lipid. Oleoyl-D-lysine reverses neuropathic pain in mice, shows antidrowsiness effect on chronic neuropathic pain. Oleoyl-D-lysine is safe and effective without respiratory depression <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Glycine Transporter-2 (GlyT2) <sup>[1]</sup>
<b>In Vivo</b>	Oleoyl-D-lysine (30 mg/kg, 50 mg/kg, 100 mg/kg; i.p.)  30 mg/kg  100 mg/kg  <sup>[1]</sup> MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Wilson BS, et al. Peripheral Administration of Selective Glycine Transporter-2 Inhibitor, Oleoyl-D-Lysine, Reverses Chronic Neuropathic Pain but Not Acute or Inflammatory Pain in Male Mice. J Pharmacol Exp Ther. 2022 Sep;382(3):246-255.

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

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