

## Product Data Sheet

Product Name: RPI-GLYT2-82

Cat. No.: GC79505

### Chemical Properties

Cas. No.

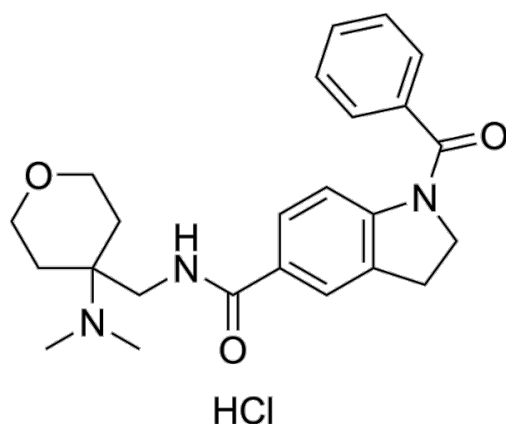
Formula  $C_{24}H_{30}ClN_3O_3$  M.Wt 443.97

Solubility DMSO: 25 mg/mL (56.31 mM; Need ultrasonic) Storage Store at 4°C, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

RPI-GLYT2-82 is a reversible, blood-brain barrier-permeable allosteric inhibitor of GlyT2 with an  $IC_{50}$  value of 554 nM. RPI-GLYT2-82 also exhibits inhibitory activity against 5-HT<sub>2A</sub>R and SERT, with  $IC_{50}$  values of 1.9  $\mu$ M and 4.7  $\mu$ M, respectively. RPI-GLYT2-82 inhibits pain signals and alleviates allodynia, shows no target-related side effects at the maximum analgesic dose, and has no addictive potential. RPI-GLYT2-82 can be used for the research of neuropathic pain [1].

In Vivo, RPI-GLYT2-82 (50-150 mg/kg, i.p., single administration) produces dose-dependent

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

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analgesic effects in mouse chronic constriction injury (CCI) and partial sciatic nerve ligation (PSNL) neuropathic pain models<sup>[1]</sup>.

### References:

[1]. Cantwell Chater RP, et al. A reversible allosteric inhibitor of GlyT2 alleviates neuropathic pain without on-target side effects. bioRxiv [Preprint]. 2025 Nov 20:2025.04.21.649698.

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