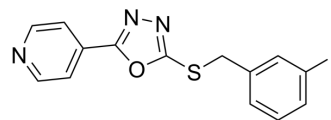


GSK3β inhibitor II

| | | |
|---------------------------|--|----------------|
| Cat. No.: | HY-14679 | |
| CAS No.: | 478482-75-6 | |
| Molecular Formula: | C ₁₄ H ₁₀ IN ₃ OS | |
| Molecular Weight: | 395.22 | |
| Target: | GSK-3 | |
| Pathway: | PI3K/Akt/mTOR; Stem Cell/Wnt | |
| Storage: | Powder | -20°C 3 years |
| | In solvent | -80°C 6 months |
| | | -20°C 1 month |



SOLVENT & SOLUBILITY

| | | | | | |
|---|--|---|-------------|-------------|--------------|
| In Vitro | DMSO : 50 mg/mL (126.51 mM; ultrasonic and warming and heat to 60°C) | | | | |
| | Preparing Stock Solutions | Solvent \ Mass \ Concentration | 1 mg | 5 mg | 10 mg |
| | | 1 mM | 2.5302 mL | 12.6512 mL | 25.3024 mL |
| | | 5 mM | 0.5060 mL | 2.5302 mL | 5.0605 mL |
| | | 10 mM | 0.2530 mL | 1.2651 mL | 2.5302 mL |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.26 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | GSK3β inhibitor II is an inhibitor of GSK3β. GSK3β inhibitor II can be used for research of Alzheimer's disease (AD) ^[1] . |
| IC₅₀ & Target | GSK-3β |
| In Vitro | GSK3β inhibitor II shows the hydrophobic interaction with the Ile62, Phe67, Val70, Ala83, and Leu188, ionic interaction with the Lys85, and hydrogen bond interaction with the Lys85 and Val135 residues ^[1] . GSK3β inhibitor II forms a hydrogen bond with Val135 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Elangovan ND, et al. Screening of potential drug for Alzheimer's disease: a computational study with GSK-3 β inhibition through virtual screening, docking, and molecular dynamics simulation. J Biomol Struct Dyn. 2021 Nov;39(18):7065-7079.

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

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