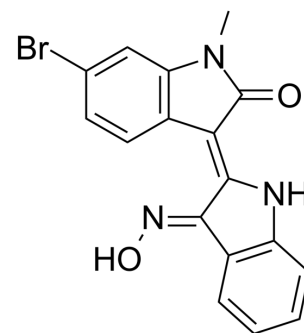


MeBIO

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-103221 | | |
| CAS No.: | 667463-95-8 | | |
| Molecular Formula: | C ₁₇ H ₁₂ BrN ₃ O ₂ | | |
| Molecular Weight: | 370.2 | | |
| Target: | Aryl Hydrocarbon Receptor; GSK-3; CDK | | |
| Pathway: | Immunology/Inflammation; PI3K/Akt/mTOR; Stem Cell/Wnt; Cell Cycle/DNA Damage | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 14.71 mg/mL (39.74 mM; ultrasonic and warming and heat to 60°C)

| Concentration | Mass | | |
|---------------|-----------|------------|------------|
| | 1 mg | 5 mg | 10 mg |
| 1 mM | 2.7012 mL | 13.5062 mL | 27.0124 mL |
| 5 mM | 0.5402 mL | 2.7012 mL | 5.4025 mL |
| 10 mM | 0.2701 mL | 1.3506 mL | 2.7012 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MeBIO is a potent AhR (aryl hydrocarbon receptor) agonist, with IC₅₀ of 44 μM (GSK-3) and 55 μM (CDK1/cyclin B), respectively. MeBIO is inactive on GSK-3β^[1].

IC₅₀ & Target

| | | |
|------------------------------------|--|---|
| GSK-3 44 μM (IC ₅₀) | Cdk1/cyclin B 55 μM (IC ₅₀) | Cdk5/p25 >100 μM (IC ₅₀) |
|------------------------------------|--|---|

REFERENCES

[1]. Meijer L, et al. GSK-3-selective inhibitors derived from Tyrian purple indirubins. Chem Biol. 2003 Dec;10(12):1255-66.

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

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