# TTK21

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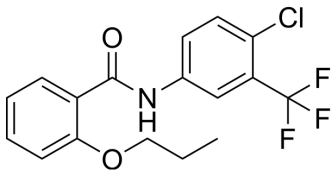
|---|---|
| **Cat. No.:** | HY-116673 |
| **CAS No.:** | 709676-56-2 |
| **Molecular Formula:** | $C_{17}H_{15}ClF_3NO_2$ |
| **Molecular Weight:** | 357.75 |
| **Target:** | Histone Acetyltransferase |
| **Pathway:** | Epigenetics |
| **Storage:** | Powder -20°C 3 years<br>4°C 2 years<br>In solvent -80°C 6 months<br>-20°C 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (279.52 mM; ultrasonic and warming and heat to 60°C)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 2.7952 mL | 13.9762 mL | 27.9525 mL |
| 5 mM | 0.5590 mL | 2.7952 mL | 5.5905 mL |
| 10 mM | 0.2795 mL | 1.3976 mL | 2.7952 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: ≥ 2.5 mg/mL (6.99 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

TTK21 is an activator of the histone acetyltransferases CBP/p300. TTK21 passes the blood–brain barrier, induces no toxicity, and reaches different parts of the brain when conjugated to glucose-based carbon nanosphere (CSP). TTK21 has beneficial implications for the brain functions of adult neurogenesis and long-term memory[1].

| $IC_{50}$ & Target | | |
|---|---|---|
| | CBP/p300 | TIP60 |

## REFERENCES

[1]. Chatterjee S, et al. A novel activator of CBP/p300 acetyltransferases promotes neurogenesis and extends memory duration in adult mice. J Neurosci. 2013;33(26):10698-10712.

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

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