# RU-TRAAK-2

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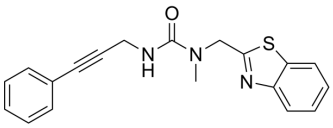
|---|---|
| **Cat. No.:** | HY-117825 |
| **CAS No.:** | 1210538-56-9 |
| **Molecular Formula:** | $C_{19}H_{17}N_3OS$ |
| **Molecular Weight:** | 335.42 |
| **Target:** | Potassium Channel |
| **Pathway:** | Membrane Transporter/Ion Channel |
| **Storage:** | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 50 mg/mL (149.07 mM; Need ultrasonic)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.9813 mL | 14.9067 mL | 29.8134 mL |
| | 5 mM | 0.5963 mL | 2.9813 mL | 5.9627 mL |
| | 10 mM | 0.2981 mL | 1.4907 mL | 2.9813 mL |

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

## BIOLOGICAL ACTIVITY

**Description**

RU-TRAAK-2 is a completely reversible TRAAK (TWIK-related arachidonic acid-stimulated $K^+$ channel) inhibitor. RU-TRAAK-2 exerts no activity for non-K2P channels (Kv1.2, Slo1 and GIRK2)[1]. RU-TRAAK-2 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

## REFERENCES

[1]. Su Z, et al. Novel cell-free high-throughput screening method for pharmacological tools targeting K+ channels. Proc Natl Acad Sci U S A. 2016;113(20):5748-5753.

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

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