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**Product Data Sheet**

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Product Name: BTK inhibitor 10

Cat. No.: GC67940

**Chemical Properties**

Cas. No. 2241732-30-7

Formula  $C_{25}H_{23}N_5O_3$ 

M.Wt 441.48

Solubility DMSO : 50 mg/mL (113.26 mM; Need ultrasonic)

Storage 4°C, away from moisture and light

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**IC50: Bruton kinase (BTK)<sup>[1]</sup>

BTK inhibitor 10 is a potent and orally active **Bruton kinase (BTK)** inhibitor, extracted from patent WO2018145525, example 33. BTK inhibitor 10 has a potential for rheumatoid arthritis treatment<sup>[1]</sup>.

BTK inhibitor 10 (oral gavage; 30 mg/kg; 21 days; once daily) has a significant improvement in arthritis symptoms in CIA mice. The damage of each of the 4 paws in mice is divided into 0-4 to calculate the total score of the limbs. After 21 days' oral treatment, BTK030 reduces the arthritic score to 3.62 while the control group shows a value of 8.33<sup>[1]</sup>.

Animal Model: DBA/1J mice injected with collagen as a CIA model<sup>[1]</sup>

Dosage: 30 mg/kg

Administration: oral gavage; 21 days; once daily

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

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Result: Decreased arthritis scores significantly when it compares to control group.

[1]. Huijun Yin, et al. Pyrrolo-aromatic heterocyclic compound, preparation method therefor, and medical use thereof. Patent WO2018145525

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