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**Product Data Sheet**

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Product Name: JC124  
Cat. No.: GC62300

**Chemical Properties**

Cas. No. 1638611-48-9

Formula C<sub>17</sub>H<sub>19</sub>ClN<sub>2</sub>O<sub>4</sub>S

M.Wt 382.86

Solubility DMSO : 250 mg/mL (652.98 mM; ultrasonic and adjust pH to 3 with HCl) Storage Store at -20°C

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**

JC124 is a specific NLRP3 inflammasome inhibitor. JC124 has anti-inflammatory and neuroprotective effects[1].

JC124 shows selective inhibition of NLRP3 inflammasome formation and activation of caspase-1, and reduction of IL-1 $\beta$  both in vitro[1].

JC124 (100 mg/kg; i.p.; 4 doses; 30 min post-injury, 6, 24, and 30 h after TBI) treatment significantly decreases the number of injury-induced degenerating neurons, inflammatory cell response in the injured brain, and cortical lesion volume. JC124 also significantly reduces protein expression levels of NLRP3, ASC, IL-1 beta, TNF $\alpha$ , iNOS, and caspase-1[1].

[1]. Ram Kuwar, et al. A novel small molecular NLRP3 inflammasome inhibitor alleviates neuroinflammatory response following traumatic brain injury. J Neuroinflammation. 2019 Apr 11;16(1):81.

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

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