

## Product Data Sheet

Product Name: MAP4K4-IN-3

Cat. No.: GC63059

### Chemical Properties

Cas. No. 1811510-58-3

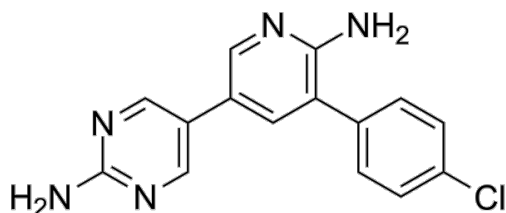
Formula  $C_{15}H_{12}ClN_5$  M.Wt 297.74

Solubility DMSO : 10 mg/mL (33.59 mM); ultrasonic and warming and heat to 60°C) Storage 4°C, protect from 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

MAP4K4-IN-3 (Compound 17) is a potent and selective MAP4K4 inhibitor with an IC<sub>50</sub> of 14.9 nM in kinase assay, an IC<sub>50</sub> of 470 nM in cell assay. Antidiabetic agent[1].

MAP4K4, a serine/threonine protein kinase may be a viable target for antidiabetic agents[1].

Oral dosing in telemetered rats for 5 days with MAP4K4-IN-3 (Compound 2; 25 mg/kg, b.i.d.) results in a number of adverse effects. Substantial weight losses (7%) and body temperature increases

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

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(0.4°C) relative to controls are observed over the course of the study. For cardiovascular end points, maximal heart rate increases of 25 bpm, relative to controls, are induced by treatment with MAP4K4-IN-3[2].

[1]. Ammirati M, et al. Discovery of an in Vivo Tool to Establish Proof-of-Concept for MAP4K4-Based Antidiabetic Treatment. ACS Med Chem Lett. 2015 Oct 6;6(11):1128-33.

[2]. Dow RL, et al. 2-Aminopyridine-Based Mitogen-Activated Protein Kinase Kinase Kinase Kinase 4 (MAP4K4) Inhibitors: Assessment of Mechanism-Based Safety. J Med Chem. 2018 Apr 12;61(7):3114-3125.

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