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## Product Data Sheet

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Product Name: BRD0539

Cat. No.: GC64111

### Chemical Properties

Cas. No. 1403838-79-8

Formula C<sub>25</sub>H<sub>25</sub>FN<sub>2</sub>O<sub>3</sub>S

M.Wt 452.54

Solubility DMSO : 100 mg/mL (220.97 mM; Need ultrasonic) 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

BRD0539 is a potent inhibitor of Streptococcus pyogenes Cas9 (SpCas9) with IC<sub>50</sub> of 22 μM in an in vitro DNA cleavage assay.

BRD0539 is stable in human plasma and reversibly inhibits SpCas9. BRD0539 does not interfere with the SpCas9:gRNA interaction. BRD0539 dose-dependently blocks the formation of the DNA-bound state in a dose-dependent fashion. BRD0539 impairs the perturbation induced by the 4PAM DNA. BRD0539 is able to inhibit SpCas9 in the eGFP-disruption assay.[1]

[1] Basudeb Maji, et al. Cell. 2019 May 2;177(4):1067-1079.e19.

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

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