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## Product Data Sheet

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Product Name: ERDRP-0519

Cat. No.: GC64107

### Chemical Properties

Cas. No. 1374006-96-8

Formula C<sub>23</sub>H<sub>30</sub>F<sub>3</sub>N<sub>5</sub>O<sub>4</sub>S

M.Wt 529.58

Solubility DMSO : 100 mg/mL (188.83 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

ERDRP-0519, an orally bioavailable small-molecule Measles virus (MeV) polymerase inhibitor, prevents measles disease in squirrel monkeys (*Saimiri sciureus*). ERDRP-0519 inhibits morbilliviruses with nanomolar potency.[1][2][3].

ERDRP-0519 exhibits potency against a panel of Measles virus (MeV) isolates with EC<sub>50</sub>s of 0.07- 0.3 μM[1]. ERDRP-0519 exhibits potency against MeV and related pathogens of the Morbillivirus genus, such as canine distemper virus (CDV)[3].

A single-dose pharmacokinetic (PK) study is performed in squirrel monkeys by oral (intragastric) delivery of ERDRP-0519 (50 mg/kg) and blood sampling at seven predefined time points after dosing. Serum concentrations peak ~2 h post-administration (C<sub>max</sub>=3.27 μM)[3].

[1]. Wittwer K, et al. Small-molecule polymerase inhibitor protects non-human primates from measles and reduces shedding. *Nat Commun.* 2021 Sep 2;12(1):5233.

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

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