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**Product Data Sheet**

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Product Name: GRL-0496

Cat. No.: GC62221

**Chemical Properties**

Cas. No. 1087243-14-8

Formula  $C_{14}H_9ClN_2O_2$  M.Wt 272.69Solubility Storage Store at  $-20^{\circ}C$ 

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  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**

GRL-0496 is an inhibitor of severe acute respiratory syndrome coronavirus (SARS-CoV) and SARS-CoV-2 main protease ( $M^{pro}$ ), also known as 3C-like protease ( $3CL^{pro}$ ;  $IC_{50}s = 0.03$  and  $0.038 \mu M$ , respectively).<sup>1,2</sup> It reduces viral infectivity in SARS-CoV-infected Vero cells ( $EC_{50} = 6.9 \mu M$ ).<sup>1</sup>

1. Ghosh, A.K., Gong, G., Grum-Tokars, V., et al. Design, synthesis and antiviral efficacy of a series of potent chloropyridyl ester-derived SARS-CoV 3CL<sup>pro</sup> inhibitors. *Bioorg. Med. Chem. Lett.* 18(20)5684-5688(2008) 2. Cao, W., Cho, C.-C.D., Geng, Z.Z., et al. Evaluation of SARS-CoV-2 main protease inhibitors using a novel cell-based assay. *ACS Cent. Sci.* 8(2)192-204(2022)

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

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