



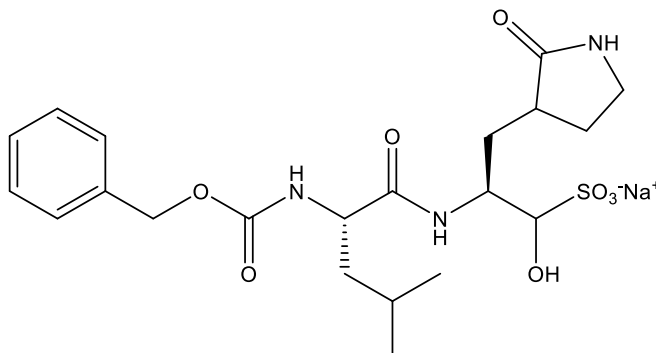
Catalog #10-5299

GC376

CAS# 1416992-39-6

(2S)-2-((S)-2-(((Benzyloxy)carbonyl)amino)-4-methylpentanamido)-1-hydroxy-3-(2-oxopyrrolidin-3-yl)propane-1-sulfonate, sodium salt

Lot # E109231



GC376 is a potent, reversible, covalent inhibitor of 3C- and 3C-like (3CLpro) proteases.¹ It is a bisulfite adduct of GC373 (an aldehyde) thus it is a prodrug and is converted to the active aldehyde form under aqueous conditions.² It is a broad-spectrum agent effective against many human and animal viruses including coronavirus and norovirus³ and others. GC376 is a promising candidate for further development as a SARS-CoV-2 therapeutic agent.⁴

- 1) Kim *et al.* (2012), *Broad-spectrum antivirals against 3C or 3C-like proteases of picornaviruses, noroviruses, and coronaviruses*; J. Virol. **86** 11754
- 2) Lu *et al.* (2022), *Crystallization of Feline Coronavirus M^{pro} With GC376 Reveals Mechanism of Inhibition*; Front. Chem. **10** 852210
- 3) Takahashi *et al.* (2013), *Structural and inhibitor studies of norovirus 3C-like proteases*; Virus Res. **178** 437
- 4) Caceres *et al.* (2021), *Efficacy of GC-376 against SARS-CoV-2 virus infection in the K18 hACE2 transgenic mouse model*; Sci. Rep. **11** 9609

PHYSICAL DATA

Molecular Weight:	507.53
Molecular Formula:	C ₂₁ H ₃₀ N ₃ O ₈ S•Na
Purity:	>98% (NMR)
	NMR: (Conforms)
Solubility:	DMSO (10 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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