

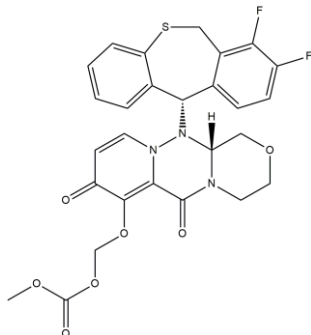
# Baloxavir marboxil

04/20

**ALTERNATE NAMES:** S-033188; [(3R)-2-[(11S)-7,8-difluoro-6,11-dihydrobenzo[c][1]benzothiepin-11-yl]-9,12-dioxo-5-oxa-1,2,8-triazatricyclo[8.4.0.0<sup>3,8</sup>]tetradeca-10,13-dien-11-yl]oxymethyl methyl carbonate; (((12aR)-12-((11S)-7,8-Difluoro-6,11-dihydrodibenzo(b,E)thiepin-11-yl)-6,8-dioxo-3,4,6,8,12,12a-hexahydro-1H-(1,4)oxazino(3,4-C)pyrido(2,1-F)(1,2,4)triazin-7-yl)oxy)methyl methyl carbonate; (((R)-12-((S)-7,8-difluoro-6,11-dihydrodibenzo[b,e]thiepin-11-yl)-6,8-dioxo-3,4,6,8,12,12a-hexahydro-1H-[1,4]oxazino[3,4-c]pyrido[2,1-f][1,2,4]triazin-7-yl)oxy)methyl methyl carbonate

**CATALOG #:** B3014-100 100 mg  
B3014-500 500 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>27</sub>H<sub>23</sub>F<sub>2</sub>N<sub>3</sub>O<sub>7</sub>S

**MOLECULAR WEIGHT:** 571.6

**CAS NUMBER:** 1985606-14-1

**APPEARANCE:** White to light yellow powder

**PURITY:** 99%

**SOLUBILITY:** ~30 mg/ml in DMSO (May need ultrasonication)

**DESCRIPTION:** Baloxavir marboxil is a prodrug that is metabolised to the active form baloxavir acid also known as S-033447. S-033447 is a small molecule inhibitor of the cap-dependent endonuclease of influenza A and B viruses. It shows nanomolar antiviral activity against influenza A and B viruses *in vitro*. In murine models of seasonal influenza and avian influenza A(H5N1) or A(H7N9), orally administered baloxavir showed a rapid reduction in pulmonary viral loads and decreased mortality. Baloxavir significantly reduced the time for alleviation of symptoms and reduced virus titres at 24 and 48 hours post-treatment at three different doses (10 mg, 20 mg and 40 mg) in a phase II study with patients experiencing uncomplicated influenza.

**STORAGE TEMPERATURE:** -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCES:**

- Hayden, F.G., Sugaya, N., Hirotsu, N. et al. Baloxavir Marboxil for Uncomplicated Influenza in Adults and Adolescents. *N Engl J Med.* 379(10):913-923 (2018).
- Koszalka, P., Tilmanis, D., Hurt, A.C. Influenza antivirals currently in late-phase clinical trial. *Influenza Other Respir Viruses.* 11(3):240-246 (2017).

**RELATED PRODUCTS:**

Remdesivir (Cat. No. B2997)  
 Rilpivirine hydrochloride (Cat. No. B2427)  
 Acyclovir (Cat. No. 2200)  
 Cidofovir (Cat. No. B2682)  
 Hydroxychloroquine sulfate (Cat. No. B2051)

**DISCLAIMER:** **FOR RESEARCH USE ONLY! Not to be used on humans.**