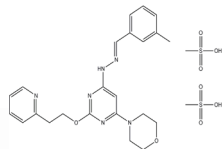


PRODUCT: Apilimod mesylate**ALTERNATE NAME:** (E)-4-(6-(2-(3-methylbenzylidene)hydrazinyl)-2-(pyridin-2-yl)ethoxy)pyrimidin-4-yl)morpholine dimethanesulfonate**CATALOG #:** B1129-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C₂₅H₃₄N₆O₈S₂**MOLECULAR WEIGHT:** 610.7**CAS NUMBER:** 870087-36-8**APPEARANCE:** White to off-white solid**SOLUBILITY:** DMSO**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and moisture**DESCRIPTION:** Apilimod is a small molecule that inhibits IL-12 and IL-23 production - cytokines that are involved in autoimmune diseases through the prevention of nuclear translocation of c-Rel. It suppresses the Th1, but not the Th2, response, resulting in reduced inflammation in a mouse model of inflammatory bowel disease. Apilimod inhibits the production of IL-23p19 and IL-12/IL-23p40 subunits while decreasing skin inflammation in a clinical study of patients with psoriasis. Apilimod inhibits phosphatidylinositol-3-phosphate 5-kinase (PIKfyve; IC₅₀ = 14 nM), which is necessary and sufficient for suppression of IL-12/IL-23p40 expression. It was discovered to potently inhibit SARS-CoV-2 in a drug screen.**REFERENCES:** Billich, A., *et al.* (2007). *Drugs* **10**, 53-59.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**APY-0201 (**9564**)YM201636 (**2045**)IL-2, human recombinant (**4161**)IL-2, rat recombinant (**4163**)Human CellExp™ IL-2, human recombinant (**6467**)Human CellExp™ IL-2, mouse recombinant (**4719**)**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**