

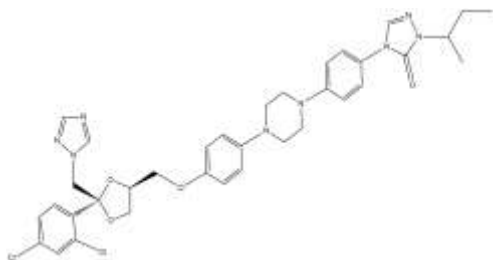
## Itraconazole

**ALTERNATE NAME:** (2*R*,4*S*)-*rel*-1-(butan-2-yl)-4-[4-(4-[[[(2*R*,4*S*)-2-(2,4-dichlorophenyl)-2-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl)piperazin-1-yl]phenyl]-4,5-dihydro-1*H*-1,2,4-triazol-5-one; Oriconazole, R51211, Sporanox

**CATALOG #:** 1987-50, 100, 500, 1000

**AMOUNT:** 50 mg, 100 mg, 500 mg, 1 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>35</sub>H<sub>38</sub>Cl<sub>2</sub>N<sub>8</sub>O<sub>4</sub>

**MOLECULAR WEIGHT:** 705.63

**CAS NUMBER:** 84625-61-6

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO

**PURITY:** ≥97%

**STORAGE:** Store at -20 °C. Protect from light.

**DESCRIPTION:** A synthetic broad-spectrum triazole antifungal agent with the mode of action being through inhibition of cytochrome P450 dependent enzymes including 14α-demethylase. Recently, it has been shown that Itraconazole inhibits Hedgehog (Hh) signaling pathway activity (IC<sub>50</sub> = 0.8 μM) as well as blocks the VEGFR2 glycosylation, trafficking, and signaling in endothelial cells.

**REFERENCE:** Nacev, B.A., *et al.* (2011). *J. Biol. Chem.* **286**, 44045-44056; Kim, J., *et al.* (2010). *Cancer Cell* **17**, 388-399

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

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

**RELATED PRODUCTS:**

- Cyclopamine (**Cat. No. 1578-5**)
- Cyclopamine-KAAD (**Cat. No. 1910-50**)
- GANT58 (**Cat. No. 1812-5, 25**)
- GANT61 (**Cat. No. 1892-5**)
- GDC-0449 (**Cat. No. 1890-5, 25**)
- Hh Signaling Pathway Antagonist (**Cat. No. 1659-1**)
- DiscoveryPak™ hedgehog Signaling Pathway Antagonists Set (**Cat. No. K868-6**)
- JK-184 (**Cat. No. 1726-1**)
- Purmorphamine (**Cat. No. 1672-5**)
- Robotnikinin (**Cat. No. 1923-1**)
- SANT-1 (**Cat. No. 1978-1,5**)
- SANT-2 (**Cat. No. 1976-1, 5**)
- Sonic Hedgehog, human recombinant (**Cat. No. 4010-25, 100, 1000**)
- Sonic Hedgehog, human recombinant (**Cat. No. 4020-25, 100, 1000**)
- Tomatidine hydrochloride (**Cat. No. 1893-25**)