Azithromycin, derived from erythromycin, is an antibiotic. Azithromycin binds to the 50S subunit of the bacterial ribosome, and thus inhibits translation of mRNA.

**IC50 Value:**
Target: Antibacterial
Azithromycin is an azalide, a subclass of macrolide antibiotics. Azithromycin is one of the world’s best-selling antibiotics.

**in vitro:** The geometric mean 50% inhibitory concentration (IC50) of azithromycin was 2,570.3 (95% CI=2,175.58 to 3,036.58) ng/ml [1]. Azithromycin, clarithromycin and roxithromycin inhibited the proliferation of both the concanavalin A- and superantigen-stimulated PBMCs dose-dependently. The effect of azithromycin was the strongest, with IC50 values of less than 5 g/ml [2].

**in vivo:** Azithromycin produced a slightly higher percentage of patients with a greater than 80% reduction in their inflammatory acne lesions (85.7%) vs. an average of 77.1% for all other agents [3].

**Clinical trial:**

**References:**

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

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