

# Datasheet

Inhibitors / Agonists / Screening Libraries

A DRUG SCREENING EXPERT

**Product Name** : I2906  
**Catalog Number** : T11594  
**CAS Number** : 331963-29-2  
**Molecular Formula** : C25H37N3O4  
**Molecular Weight** : 443.58

**Description:** I2906 showed antimycobacterial and cytotoxic activity against mycobacterium tuberculosis. IC50 Value: Target: Antibacterial Under in vitro conditions, I2906 showed excellent antimycobacterial activities and low cytotoxicity. In a murine model infected with M. tuberculosis H37Rv, the reductions on bacterial loads of both lungs and spleen were statistically significant ( $p < 0.05$ ) between I2906-treated mice and untreated controls after 4 weeks. Further, the colony-forming unit counts in the lungs were dramatically lower ( $p < 0.05$ ) than that of isoniazid-treated mice by the addition of I2906 after 8 weeks. Moreover, survival rate was increased by I2906 treatment. For multidrug-resistant strain infection, bacterial counts were reduced significantly in the lungs and spleen due to I2906 treatment in comparison with data from untreated controls ( $p < 0.05$ ).

**Storage:** 2 years -80°C in solvent; 3 years -20°C powder;

<b>Receptor (IC50)</b>	Others
------------------------	--------

## Reference

1. Lu, Jingning; Yue, Jun; Wu, Jing et al. In vitro and in vivo Activities of a New Lead Compound I2906 against Mycobacterium tuberculosis. Pharmacology (2010), 85(6), 365-371.

## FOR RESEARCH PURPOSES ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Information for product storage and handling is indicated on the product datasheet. Targetmol products are stable for long term under the recommended storage conditions. Our products may be shipped under different conditions as many of them are stable in the short-term at higher or even room temperatures. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, please follow the storage recommendations on the product data sheet.