# Data Sheet (Cat.No.C0192)

TargetMol

## Mycoplasma Clearance Reagent

### Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at -20°C
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | TargetMol's Mycoplasma Clearance Reagent is a highly effective and safe solution designed for the removal and control of mycoplasma contamination in cell culture. Mycoplasma is one of the most common and insidious contaminants in cell culture, capable of significantly affecting cell proliferation, metabolism, and gene expression, ultimately leading to biased or unreliable experimental results. When contamination occurs in valuable or irreplaceable cell lines, this product serves as an ideal rescue option.<br>This product is primarily composed of Tiamulin fumarate and Minocycline hydrochloride. Tiamulin fumarate inhibits protein synthesis by binding to the 50S ribosomal subunit of mycoplasma, while Minocycline hydrochloride binds to the 30S subunit to block the entry of aminoacyl-tRNA into the ribosome, thereby preventing the peptide elongation process. Through these mechanisms, both components effectively inhibit protein synthesis and block the growth and replication of mycoplasma.<br>This product efficiently suppresses and eliminates common mycoplasma species, including Acholeplasma laidlawii, Mycoplasma arginini, Mycoplasma hyorhinis, and Mycoplasma orale, and also exhibits inhibitory effects against certain Gram-negative and Gram-positive bacteria. With excellent cell compatibility, it quickly and thoroughly removes mycoplasma contamination without significantly affecting cell morphology or growth, helping researchers restore normal cellular physiological functions and ensuring the stability and reliability of experimental systems. |



Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481