

# ML346

**Catalog No: tcsc4929**



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

100872-83-1

**Formula:**

$C_{14}H_{12}N_2O_4$

**Pathway:**

Metabolic Enzyme/Protease;Cell Cycle/DNA Damage

**Target:**

HSP;HSP

**Purity / Grade:**

>98%

**Solubility:**

DMSO:  $\geq 29$  mg/mL

**Observed Molecular Weight:**

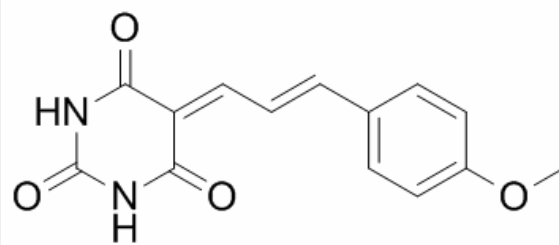
272.26

## Product Description

ML346 is an activator of **heat shock protein 70 (Hsp70)**, with an **EC<sub>50</sub>** of 4600 nM in HeLa cells.

IC50 & Target: EC50: 4600 nM (Hsp70, in HeLa cells)<sup>[1]</sup>

***In Vitro:*** ML346 is an activator of Hsp70, with an EC<sub>50</sub> of 4600 nM in HeLa cells. ML346 (10 μM) restores proteostasis, restores CFTR-mediated iodide conductance, and enhances the correct folding of proteins expressed in two different cellular compartments<sup>[1]</sup>. ML346 (Compound F1) induces multiple responses and strongly induces Hsp70, the oxidative stress response genes (HO1 and GCLM), and a 2.5-fold upregulation of BiP in WT MEF cells. ML346 (0.5-25 μM) exhibits cytoprotective effects in cells after a 35 min severe heat shock, and also causes a two-fold protection from H<sub>2</sub>O<sub>2</sub>-induced apoptosis<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!