

# MF63

**Catalog No: tcsc0508**



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

892549-43-8

**Formula:**

$C_{23}H_{11}ClN_4$

**Pathway:**

Immunology/Inflammation

**Target:**

PGE synthase

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq$  43 mg/mL (113.51 mM)

**Observed Molecular Weight:**

378.81

## Product Description

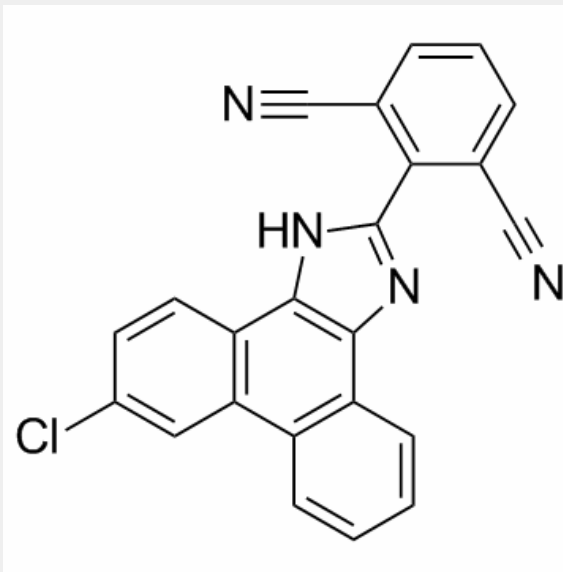
MF63 is a selective mPGES-1 inhibitor with an IC50 of 0.9 nM and 1.3 nM for pig mPGES-1 and human mPGES-1 enzyme,

respectively.

IC50 value: 0.9 nM ( pig mPGES-1); 1.3 nM (human mPGES-1)

Target: mPGES-1

MF63 potently inhibited the human mPGES-1 enzyme with a high degree (>1000-fold) of selectivity over other prostanoid synthases. In rodent species, MF63 strongly inhibited guinea pig mPGES-1 but not the mouse or rat enzyme. When tested in the guinea pig and a knock-in (KI) mouse expressing human mPGES-1, the compound selectively suppressed the synthesis of PGE(2), but not other prostaglandins inhibitable by nonsteroidal anti-inflammatory drugs (NSAIDs), yet retained NSAID-like efficacy at inhibiting lipopolysaccharide-induced pyresis, hyperalgesia, and iodoacetate-induced osteoarthritic pain.



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