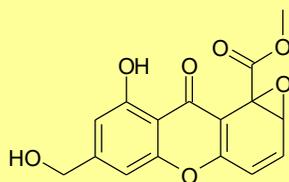


MS-347a

Cat.# BLK-1710

Structure**Origin:** Aspergillus udagawae.**CAS Registry Number:** 144678-18-2**Appearance:** Orange solid**Molecular Formula/ Weight:** C₁₆H₁₂O₇=316.27**Purity:** >95.0% by HPLC**Solubility:** Sol. in 1mg/ml ethanol, methanol, DMSO**Background Information:**

MS-347a is a fungal metabolite isolated from *Aspergillus* sp. KY52178 and identified as an inhibitor of smooth muscle myosin light chain kinase (MLCK)¹. It inhibits MLCK with an IC₅₀ of 9.2 μM in a time-dependent manner and also affects protein kinase C at higher concentrations. In endocrine cells, MS-347a attenuates agonist-induced exocytosis without altering intracellular Ca²⁺ signaling^{2,3}. Recent antifungal screening studies have also identified MS-347a as an active compound against plant pathogenic fungi⁴.

Handling and Storage:

Store at -20°C.

References:

1. J. Antibiot. 1993, 46, 1775–1781.
2. J. Biol. Chem. 1994, 269, 6528–6535.
3. Endocrinology 1997, 138, 1440–1449.
4. J. Nat. Prod. 2025, 88, 2090–2096.

Manufactured with Cortesy strain from The Kitasato Institute.