

Aristolochic acid (A&B), PLA2 inhibitor

Catalog	Unit
TBI1343-20MG	20mg
TBI1343-100MG	100mg

Product Details

Formal Name: 8-Methoxy-6-nitro-phenanthro[3,4-d]-1,3-dioxole-5-carboxylic acid (A) and 6-nitro-phenanthro[3,4-d]-1,3-dioxole-5-carboxylic acid (B)

Alternate Names: Mixture of Aristolochic Acid A and B

Molecular Formula: C₁₇H₁₁NO₇ and C₁₆H₉NO₆

Formula Weight: 341.3 and 311.3

CAS Number: 313-67-7

Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 30 mg/ml)

Storage: RT

Stability: ≥ 1 year.

Applications

PLA2 inhibitor

Functions

Phytochemical that acts as an anti-inflammatory and phospholipase A2 (PLA2) inhibitor (IC₅₀ = 40 μM in human neutrophils). Its mutagenic properties cause tumorigenesis and kidney damage in rodent models and in humans. Induces NF-κB, TGF-β, and oxidative stress in mouse kidney, and mitochondrial apoptosis in rat liver.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.