



Aristolochic Acid B

Catlog Number: PDP-14339

• Product Background

Aristolochic Acid B is a naturally occurring nitrophenanthrene carboxylic acid derivative with significant scientific research value. It is primarily isolated from the seeds of *Aristolochia debilis* and other plants belonging to the Aristolochiaceae family.

Alternative English names: Aristolochic Acid II, Noraristolochic Acid, 6-nitrophenanthro(3,4-d)-1,3-dioxole-5-carboxylic acid, 6-nitronaphtho(2,1-g)(1,3)benzodioxole-5-carboxylic acid.

Structural characteristic: It is structurally similar to Aristolochic Acid I, with the only difference being the absence of a methoxy group at the C8 position.

Notably, Aristolochic Acid B is classified as a Group 1 human carcinogen by the International Agency for Research on Cancer (IARC). It is strictly intended for scientific research purposes only and must not be used in drugs, food, or any other applications involving human or animal consumption.



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• Basic Information

Appearance	Solid
CAS	475-80-9
Purity	99.92%
Molecular Weight	311.25
Formula	C ₁₆ H ₉ NO ₆
Color	Light yellow to yellow
SMILES	<chem>O=C(C1=C2C([N+])([O-])=O)=CC3=CC=CC=C3C2=C(OCO4)C4=C1)O</chem>
Intended Use	For research and further manufacturing use only.

• Package and Storage

Storage: 4°C, protect from light

CD BioSustainable is a reputable and professional company in the industry. We provide high-level technical services and total solutions to deliver only the most satisfactory results for our clients.

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In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

Shipping: Room temperature.

• Product Features

Physical form: Appears as a yellow powder, ensuring easy identification and handling in laboratory settings.

Defined physicochemical properties: Has a melting point of 270–272°C, a predicted boiling point of 592.2±50.0 °C, and a density of 1.610±0.06 g/cm³.

Specific solubility profile: Slightly soluble in methanol, almost insoluble in water, and soluble in organic solvents such as ethanol and DMSO.

Clear stability requirements: Requires storage at 4°C in a dark environment to maintain its chemical integrity.

Well-documented safety classification: Assigned hazard class 6.1(b) with transport number 2811, and GHS pictograms 06 (Toxic) and 08 (Carcinogenic).

• Product Applications

Used as a reference standard or control in qualitative and quantitative analysis via techniques like HPLC/ESI-MS.

Applied in pharmacology research to investigate its inhibitory effects on in vitro phospholipid hydrolysis by hsf-PLA₂.

Utilized in toxicology studies to assess fungi-toxic effects, such as activity against Botrytis cinerea.

Employed in metabolic research to explore in vivo metabolism pathways and mechanisms.

Used in carcinogenicity and nephrotoxicity studies to understand its biological impacts and underlying mechanisms.

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