## Anthracene-9-carboxylic acid

MedChemExpress

Cat. No.:	HY-101329		
CAS No.:	723-62-6		
Molecular Formula:	$C_{15}H_{10}O_2$		
Molecular Weight:	222.24		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

In Vitro

DMSO: 125 mg/mL (562.45 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.4996 mL	22.4982 mL	44.9964 m
	5 mM	0.8999 mL	4.4996 mL	8.9993 mL
	10 mM	0.4500 mL	2.2498 mL	4.4996 ml

BIOLOGICAL ACTIVITY

Description	Anthracene-9-carboxylic acid (9-Anthracenecarboxylic acid) is an anthracene derivative traditionally used to block and identify Ca <sup>2+</sup> -activated Cl <sup>-</sup> currents (CaCCs) in various cell types, like diverse smooth muscle cells, epithelial cells and salivary gland cells <sup>[1]</sup> .
IC <sub>50</sub> & Target	Ca <sup>2+</sup> -activated Cl <sup>-</sup> currents <sup>[1]</sup>
In Vitro	Anthracene-9-carboxylic acid causes a voltage-dependent block of outward currents in HEK 293T cells and inhibits a larger fraction of the current as depolarization increased <sup>[1]</sup> . Anthracene-9-carboxylic acid induces a strong potentiation of tail currents measured at -100 mV after depolarizing voltages, as well as a prolongation of the deactivation kinetics in HEK 293T <sup>[1]</sup> . Anthracene-9-carboxylic acid (500 μM, rabbit pulmonary artery smooth muscle cells) produces a small inhibition of the maximum outward Cl <sup>-</sup> current at +70 mV (21±10%) but augmented the amplitude of the instantaneous inward relaxation at -80 mV by 321±34% <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## **Product** Data Sheet

OH

## Caution: Product has not been fully validated for medical applications. For research use only.

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