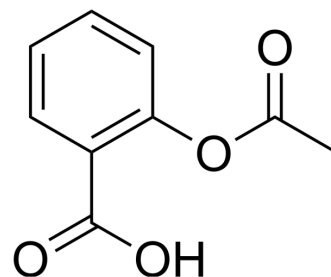


## Aspirin (Standard)

<b>Cat. No.:</b>	HY-14654R
<b>CAS No.:</b>	50-78-2
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	180.16
<b>Target:</b>	COX; Autophagy; Mitophagy; Virus Protease; Apoptosis; NF-κB; Caspase; p38 MAPK
<b>Pathway:</b>	Immunology/Inflammation; Autophagy; Anti-infection; Apoptosis; NF-κB; MAPK/ERK Pathway
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 400 mg/mL (2220.25 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.5506 mL	27.7531 mL	55.5062 mL
	5 mM	1.1101 mL	5.5506 mL	11.1012 mL
	10 mM	0.5551 mL	2.7753 mL	5.5506 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Aspirin (Standard) is the analytical standard of Aspirin. This product is intended for research and analytical applications. Aspirin (Acetylsalicylic Acid) is an orally active, potent and irreversible inhibitor of cyclooxygenase COX-1 and COX-2, with IC<sub>50</sub> values of 5 and 210 μg/mL, respectively. Aspirin induces apoptosis. Aspirin inhibits the activation of NF-κB. Aspirin also inhibits platelet prostaglandin synthetase, and can prevent coronary artery and cerebrovascular thrombosis<sup>[1][2][3][4][5][6]</sup>.

#### IC<sub>50</sub> & Target

COX-1

COX-2

### CUSTOMER VALIDATION

- Cell Host Microbe. 2024 Jan 11:S1931-3128(23)00510-3.
- Cancer Res. 2018 Oct 1;78(19):5586-5599.
- Cell Death Dis. 2018 Aug 28;9(9):847.
- Cell Prolif. 2022 Dec 10:e13380.

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- Front Immunol. 01 December 2021.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

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