



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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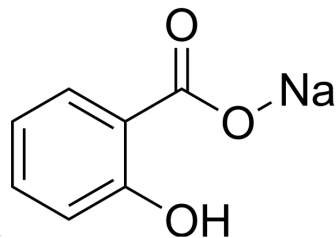
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## Sodium Salicylate (Standard)

<b>Cat. No.:</b>	HY-B0167AR
<b>CAS No.:</b>	54-21-7
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>5</sub> NaO <sub>3</sub>
<b>Molecular Weight:</b>	160.1
<b>Target:</b>	COX; Autophagy; Endogenous Metabolite; Apoptosis; NF-κB; Ribosomal S6 Kinase (RSK)
<b>Pathway:</b>	Immunology/Inflammation; Autophagy; Metabolic Enzyme/Protease; Apoptosis; NF-κB; MAPK/ERK Pathway
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Sodium Salicylate (Standard) is the analytical standard of Sodium Salicylate. This product is intended for research and analytical applications. Sodium Salicylate (Salicylic acid sodium salt) inhibits cyclo-oxygenase-2 (COX-2) activity independently of transcription factor (NF-κB) activation <sup>[1]</sup> . Sodium Salicylate is also a S6K inhibitor. Sodium Salicylate is a NF-κB inhibitor that decreases inflammatory gene expression and improves repair in aged muscle <sup>[4]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	COX-2 <sup>[1]</sup> S6K <sup>[2]</sup>

### REFERENCES

- [1]. Mitchell JA, et al. Sodium salicylate inhibits cyclo-oxygenase-2 activity independently of transcription factor (nuclear factor kappaB) activation: role of arachidonic acid. *Mol Pharmacol.* 1997 Jun;51(6):907-12.
- [2]. Nixon M, et al. Salicylate downregulates 11β-HSD1 expression in adipose tissue in obese mice and in humans, mediating insulin sensitization. *Diabetes.* 2012 Apr;61(4):790-6.
- [3]. Dongmei Bai, et al. Palmitic acid negatively regulates tumor suppressor PTEN through T366 phosphorylation and protein degradation. *Cancer Lett.* 2020 Oct 8;S0304-3835(20)30506-1.
- [4]. Juhyun Oh, et al. Age-associated NF-κB signaling in myofibers alters the satellite cell niche and re-strains muscle stem cell function. *Aging (Albany NY).* 2016 Nov; 8(11): 2871–2884.

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

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