

Sulfasalazine

Catalog No: tcsc2145



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

599-79-1

Formula:

$C_{18}H_{14}N_4O_5S$

Pathway:

Autophagy;NF-κB

Target:

Autophagy;NF-κB

Purity / Grade:

>98%

Solubility:

DMSO : 80 mg/mL (200.81 mM; Need ultrasonic and warming)

Alternative Names:

NSC 667219

Observed Molecular Weight:

398.39

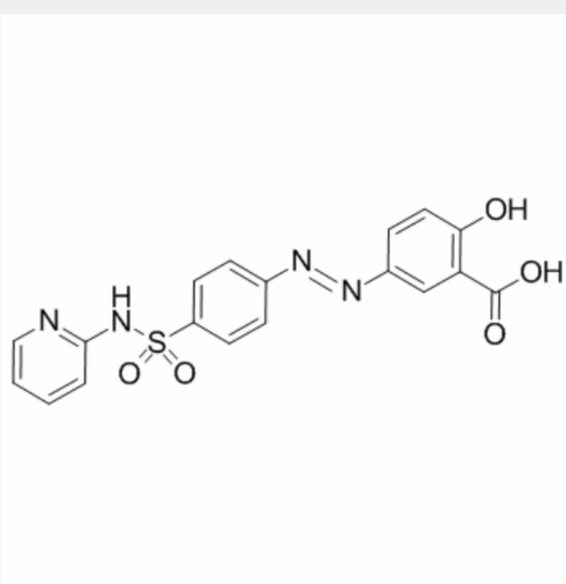
Product Description

Sulfasalazine is a drug for the treatment of rheumatoid arthritis and ulcerative colitis. Sulfasalazine is reported to suppress **NF-κB** activity.

IC50 & Target: NF- κ B^[1]

In Vitro: Treatment of SW620 colon cells with sulfasalazine inhibits TNF α -, LPS-, or phorbol ester-induced NF κ B activation. NF κ B-dependent transcription is inhibited by sulfasalazine at micro- to millimolar concentrations. TNF α -induced nuclear translocation of NF κ B is prevented by sulfasalazine through inhibition of I κ B α degradation^[1]. Pre-incubation with 5 mM of sulfasalazine alone significantly increases basal mRNA expression of all pro-inflammatory cytokines with levels of IL-6 mRNA increased by 80-fold compared with vehicle control^[2]. Once digested, sulfasalazine is cleaved into sulfapyridine and 5-aminosalicylic acid by colonic bacteria, and the latter, too, is reported to suppress NF-kappaB activity^[3].

In Vivo: At low doses (0.25 mM), SAS is able to suppress glioma growth by over 60% compared to untreated controls^[3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!