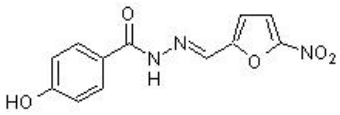
abcam

Product datasheet

Nifuroxazide, JAK/STAT signaling inhibitor ab120951

2 图像

概述

产品名称	Nifuroxazide, JAK/STAT signaling抑制剂
描述	JAK/STAT signaling抑制剂. Nitrofuran antibiotic.
生物学描述	JAK/STAT signaling inhibitor. Nitrofuran antibiotic. Inhibits JAK2 and Tyk2 phosphorylation and subsequent downstream STAT3 inhibition (EC_{50} = 3 µM). Antidiarrheal. Shows little effect on Akt, NF-κB, JAK1, MAPK and Src signaling.
纯度	> 98%
CAS编号	965-52-6
化学结构	

性能

化学名称	4-Hydroxybenzoic acid 2-[(5-nitro-2-furanyl)methylene]hydrazide
分子量	275.22
分子式	$C_{12}H_9N_3O_5$
存放说明	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in DMSO to 100 mM
处理	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
来源	Synthetic

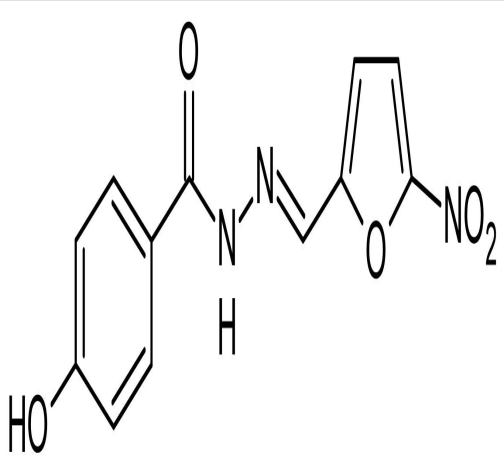
应用

The Abpromise guarantee **Abpromise™承诺保证使用ab120951于以下的经测试应用**

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

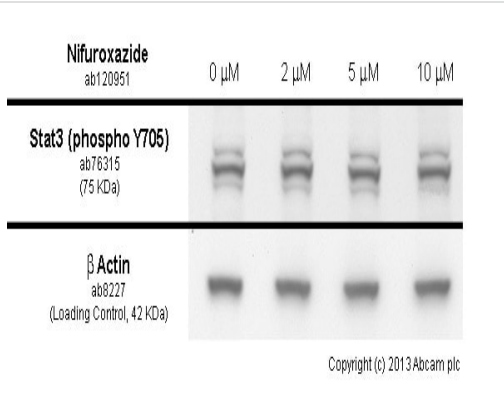
应用	Ab评论	说明
Functional Studies		Use at an assay dependent concentration.

图片



Chemical Structure - Nifuroxazide, JAK/STAT signaling inhibitor (ab120951)

2D chemical structure image of ab120951, Nifuroxazide, JAK/STAT signaling inhibitor



Functional Studies - Nifuroxazide, JAK/STAT signaling inhibitor (ab120951)

FOX-NY cells were incubated at 37°C for 30 minutes with vehicle control (0 µM) and different concentrations of nifuroxazide (ab120951). Decreased expression of Stat3 (phospho Y705) (**ab76315**) in FOX-NY cells correlates with an increase in nifuroxazide concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 20 µg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with **ab76315** at 1/20000 dilution and **ab8227** at 1 µg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**) at 1/10000 dilution and visualised using ECL development solution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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