

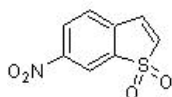
Product datasheet

Stattic, STAT3 inhibitor ab120952

★★★★★ [1 Abreviews](#) [29 References](#) [2 Images](#)

Overview

Product name	Stattic, STAT3 inhibitor
Description	Selective STAT3 inhibitor
Purity	> 99%
CAS Number	19983-44-9
Chemical structure	



Properties

Chemical name	6-Nitrobenzo[b]thiophene-1,1-dioxide
Molecular weight	211.19
Molecular formula	C ₈ H ₅ NO ₄ S
PubChem identifier	2779853
Storage instructions	Store at -20°C. It is important to note that this product is reported to be light sensitive. Store In the Dark. Store under desiccating conditions.
Solubility overview	Soluble in DMSO to 50 mM
Handling	<p>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.</p> <p>Refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	[O-][N+](=O)c1ccc2C=CS(=O)(=O)c2c1
Source	Synthetic

Applications

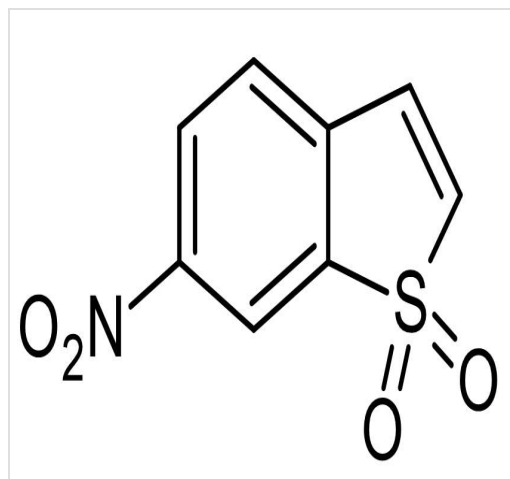
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120952 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

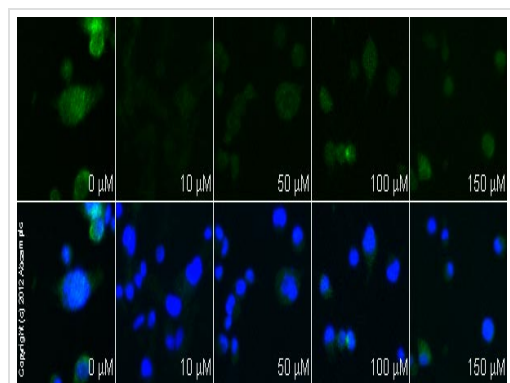
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Stattic, STAT3 inhibitor
(ab120952)

2D chemical structure image of ab120952, Stattic, STAT3 inhibitor



Functional Studies - Stattic, STAT3 inhibitor
(ab120952)

ab76315 staining STAT3 (phospho Y705) in MDA-MB-231 cells treated with stattic (ab120952), by ICC/IF. Decrease in STAT3 (phospho Y705) expression correlates with increased concentration of stattic as described in literature.

The cells were incubated at 37°C for 2h in media containing different concentrations of ab120952 (stattic) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab76315** (5 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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

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