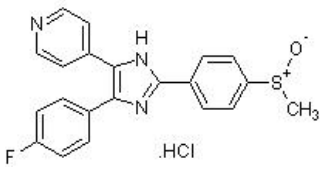
abcam

Product datasheet

SB 203580 hydrochloride, p38 MAPK inhibitor ab120235

1 References 2 Images

Overview

Product name	SB 203580 hydrochloride, p38 MAPK inhibitor
Description	p38 MAPK inhibitor; water soluble
Biological description	Water soluble, cell-permeable p38 MAPK inhibitor. Shows selectivity over many other kinases but also shown to have some inhibitory activity against GAK, CK1 , RIP2 c-Raf and GSK3.
CAS Number	869185-85-3
Chemical structure	

Properties

Chemical name	4-[4-(4-Fluorophenyl)-2-[4-(methylsulfinyl)phenyl]-1*H*-imidazol-5-yl]pyridine hydrochloride
Molecular weight	413.90
Molecular formula	$C_{21}H_{16}FN_3OS.HCl$
PubChem identifier	16760644
Storage instructions	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 25 mM
Handling	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. Refer to SDS for further information Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES	Cl.CS(=O)c1ccc(cc1)c2nc(c(n2)c3ccncc3)c4ccc(F)cc4
Source	Synthetic

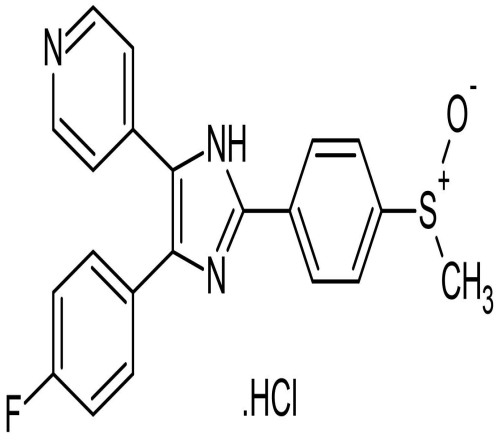
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120235 in the following tested applications.

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

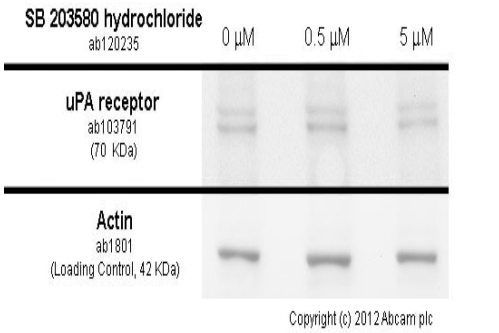
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - SB 203580 hydrochloride, p38 MAPK inhibitor (ab120235)

2D chemical structure image of ab120235, SB 203580 hydrochloride, p38 MAPK inhibitor



Western blot - SB 203580 hydrochloride, p38 MAPK inhibitor (ab120235)

MDA-MB-231 cells cells were incubated at 37°C for 24h with vehicle control (0 µM) and varied concentrations of SB 203580 hydrochloride (ab120235). Decreased expression of uPA receptor in MDA-MB-231 cells cells correlates with an increase in SB 203580 hydrochloride concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 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 **ab103791** at 1 µg/ml and **ab1801** 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.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team