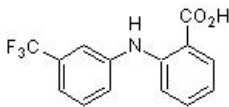


Product datasheet

Flufenamic acid, COX inhibitor ab120354

[2 References](#) [2 Images](#)

Overview

Product name	Flufenamic acid, COX inhibitor
Description	NSAID. COX inhibitor, channel blocker.
Biological description	Non-steroidal anti-inflammatory. Potently inhibits human transthyretin amyloid fibril formation. Alters ion fluxes through the plasma membrane. Potent non-specific blocker of cation and anion channels, commonly used to block currents through TRP channels and receptor-operated channels.
CAS Number	530-78-9
Chemical structure	

Properties

Chemical name	2-[3-(Trifluoromethyl)phenylamino]benzoic acid
Molecular weight	281.23
Molecular formula	C ₁₄ H ₁₀ F ₃ NO ₂
PubChem identifier	3371
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM and in ethanol to 100 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>Toxic, 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	FC(F)(F)c1cc(ccc1)Nc2ccccc2C(=O)O
Source	Synthetic

Applications

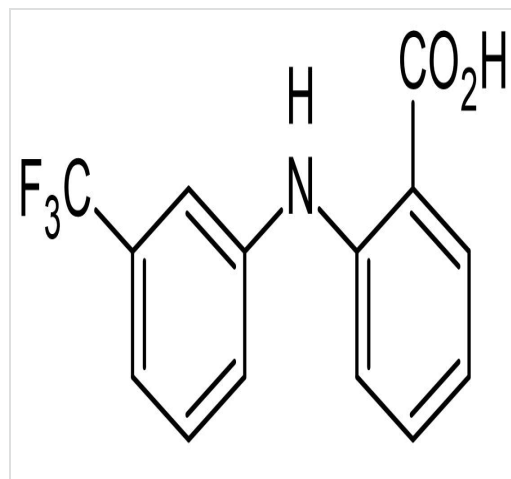
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120354 in the following tested applications.

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

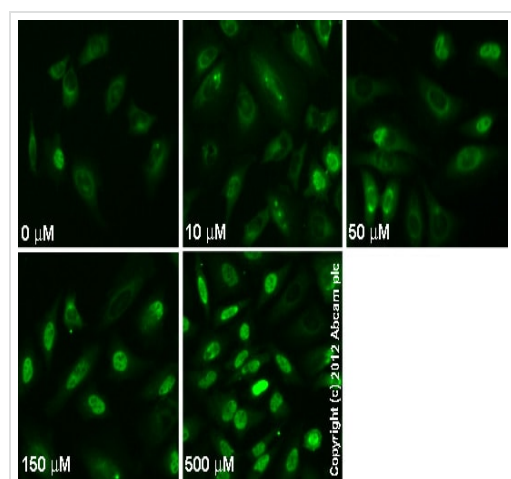
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



2D chemical structure image of ab120354, Flufenamic acid, COX inhibitor

Chemical Structure - Flufenamic acid, COX inhibitor
(ab120354)



Functional Studies - Flufenamic acid, COX inhibitor
(ab120354)

ab51110 staining AMPKα 1 + AMPKα 2 (phosphoT172) in HeLa cells treated with flufenamic acid (ab120354), by ICC/IF. Increase in AMPKα 1 + AMPKα 2 (phosphoT172) nuclear expression correlates with increased concentration of flufenamic acid, as described in literature.

The cells were incubated at 37°C for 30 minutes in media containing different concentrations of ab120354 (flufenamic acid) 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 **ab51110** (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.

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

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