

Product datasheet

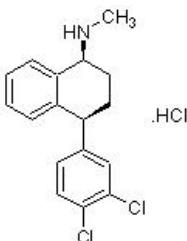
Sertraline hydrochloride ab141068

1 Image

Overview

<b>Product name</b>	Sertraline hydrochloride
<b>Description</b>	Selective serotonin reuptake inhibitor
<b>Biological description</b>	Selective serotonin reuptake inhibitor ( $K_i = 2.0 \mu\text{M}$ ). Shows antidepressant and antiproliferative activity. Active <i>in vivo</i> .
<b>Purity</b>	> 99%

Properties

<b>Chemical name</b>	(1S,4S)-4-(3,4-Dichlorophenyl)-1,2,3,4-tetrahydro-N-methyl-1-naphthalenamine hydrochloride
<b>Molecular weight</b>	342.69
<b>Chemical structure</b>	

<b>Molecular formula</b>	$\text{C}_{17}\text{H}_{17}\text{Cl}_2\text{N} \cdot \text{HCl}$
<b>CAS Number</b>	79559-97-0
<b>PubChem identifier</b>	54375
<b>Storage instructions</b>	Store at Room Temperature. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview** Soluble in DMSO to 100 mM and in ethanol to 50 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  $-20^\circ\text{C}$ . 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.

**SMILES** Cl.Clc1ccc(cc1Cl)[C@@H]3CC[C@H](NC)c2ccccc23

**Source** Synthetic

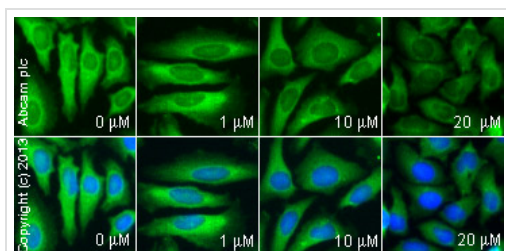
## Applications

Our [Abpromise guarantee](#) covers the use of **ab141068** 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



Functional Studies-Sertraline  
hydrochloride(ab141068)

**ab1223** staining transferrin in HeLa cells treated with sertraline hydrochloride (ab141068), by ICC/IF. Decrease in transferrin expression correlates with increased concentration of sertraline hydrochloride, as described in literature.

The cells were incubated at 37°C for 30 minutes in media containing different concentrations of ab141068 (sertraline hydrochloride) in DMSO, fixed with 100% methanol for 5 minutes at -20°C 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 **ab1223** (1/500 dilution) 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 AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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