

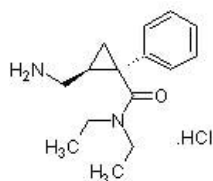
Product datasheet

Milnacipran hydrochloride, Serotonin and norepinephrine reuptake inhibitor ab120755

2 Images

Overview

Product name	Milnacipran hydrochloride, Serotonin and norepinephrine reuptake inhibitor
Description	Serotonin and norepinephrine reuptake inhibitor
Biological description	Serotonin and norepinephrine reuptake inhibitor. IC ₅₀ values are 100, 203 and >100000 nM for NA, 5-HT and DA, respectively. Centrally active following oral administration. Exhibits antidepressant and antifibromyalgia activity <i>in vivo</i> .
Purity	> 99%
CAS Number	101152-94-7
Chemical structure	



Properties

Chemical name	(1 <i>R</i> *,2 <i>S</i> *)-2-(Aminomethyl)- <i>N,N</i> -diethyl-1-phenylcyclopropanecarboxamide hydrochloride
Molecular weight	282.81
Molecular formula	C ₁₅ H ₂₂ N ₂ O.HCl
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 100 mM and in DMSO 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>

Applications

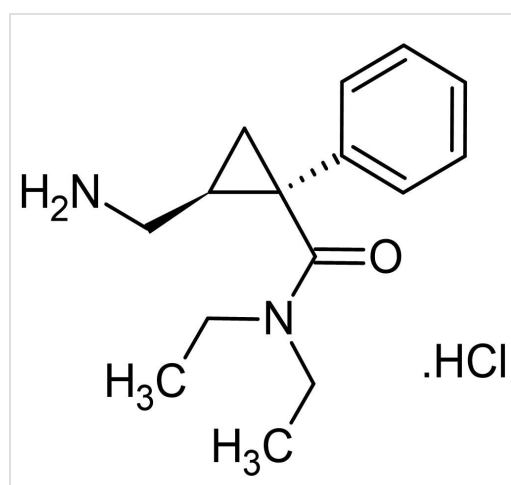
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120755 in the following tested applications.

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

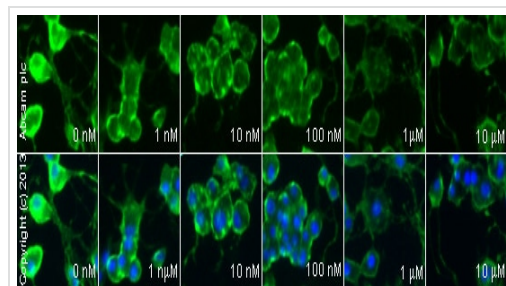
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Milnacipran hydrochloride,
Serotonin and norepinephrine reuptake inhibitor
(ab120755)

2D chemical structure image of ab120755, Milnacipran hydrochloride, Serotonin and norepinephrine reuptake inhibitor



Functional Studies - Milnacipran hydrochloride,
Serotonin and norepinephrine reuptake inhibitor
(ab120755)

ab113202 staining NET1 in PC-12 cells treated with milnacipran hydrochloride (ab120755), by ICC/IF. Decrease of NET1 expression correlates with increased concentration of milnacipran hydrochloride, as described in literature.

The NGF treated cells were incubated at 37°C for 6 hour in media containing different concentrations of ab120755 (milnacipran hydrochloride) 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 **ab113202** (5 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 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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