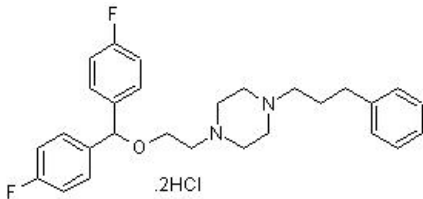


Product datasheet

GBR 12909 dihydrochloride, Dopamine transport inhibitor ab120607

1 Image

Overview

<b>Product name</b>	GBR 12909 dihydrochloride, Dopamine transport inhibitor
<b>Description</b>	Selective dopamine transport inhibitor
<b>Biological description</b>	Potent, selective dopamine reuptake inhibitor (IC <sub>50</sub> = 2.32 μM in rat hippocampal slices; IC <sub>50</sub> = 6-35 μM in whole cell patch clamp recordings).
<b>Purity</b>	> 98%
<b>CAS Number</b>	67469-78-7
<b>Chemical structure</b>	

Properties

<b>Chemical name</b>	1-[2-[Bis-(4-fluorophenyl)methoxy]ethyl]-4-(3-phenylpropyl)piperazine dihydrochloride
<b>Molecular weight</b>	523.49
<b>Molecular formula</b>	C <sub>28</sub> H <sub>32</sub> F <sub>2</sub> N <sub>2</sub> O.2HCl
<b>PubChem identifier</b>	104920
<b>Storage instructions</b>	Store at Room Temperature. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in water to 25 mM (with heating) and in DMSO to 100 mM (with heating)
<b>Handling</b>	<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>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>

**SMILES**
C1CN(CCN1CCCC2=CC=CC=C2)CCOC(C3=CC=C(C=C3)F)C4=CC=C(C=C4)F.Cl.Cl
**Source**

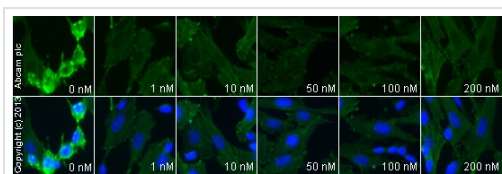
Synthetic

**Applications**

Our [Abpromise guarantee](#) covers the use of **ab120607** 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 - GBR 12909 dihydrochloride,  
Dopamine transport inhibitor (ab120607)

**ab65783** staining NR2B in SKNSH cells treated with GBR 12909 dihydrochloride (ab120607), by ICC/IF. Decrease in NR2B expression correlates with increased concentration of GBR 12909 dihydrochloride, as described in literature.

The cells were incubated at 37°C for 10 minutes in media containing different concentrations of ab120607 (GBR 12909 dihydrochloride) 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 **ab65783** (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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