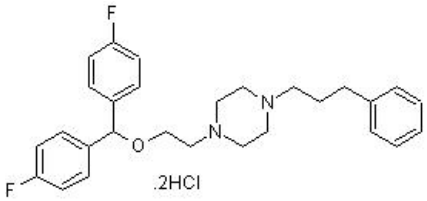
abcam

Product datasheet

GBR 12909 dihydrochloride, Dopamine transport inhibitor ab120607

2 Images

Overview

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

Properties

Chemical name	1-[2-[Bis-(4-fluorophenyl)methoxy]ethyl]-4-(3-phenylpropyl)piperazine dihydrochloride
Molecular weight	523.49
Molecular formula	$C_{28}H_{32}F_2N_2O.2HCl$
PubChem identifier	104920
Storage instructions	Store at Room Temperature. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 25 mM (with heating) and in DMSO to 100 mM (with heating)
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. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.

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

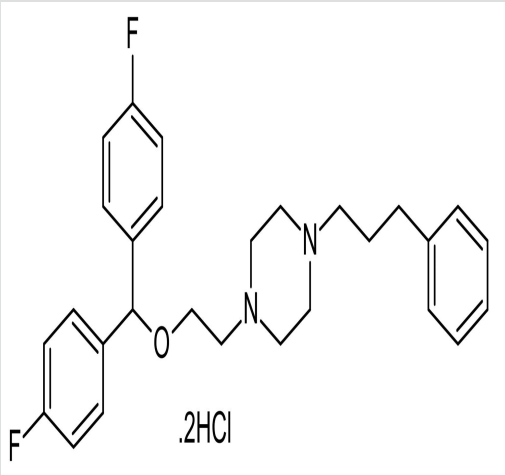
Applications

The Abpromise guarantee 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.

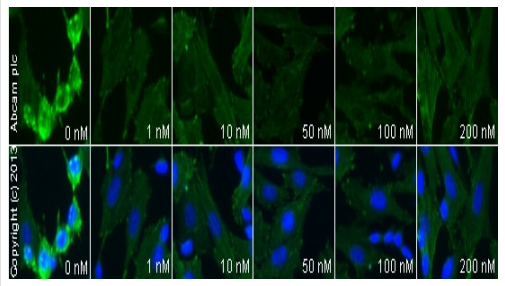
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - GBR 12909 dihydrochloride, Dopamine transport inhibitor (ab120607)

2D chemical structure image of ab120607, GBR 12909 dihydrochloride, Dopamine transport inhibitor



Immunocytochemistry/ Immunofluorescence - 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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