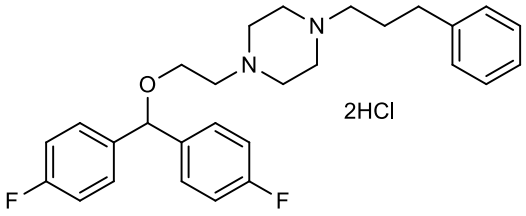
Catalog # 10-1458

GBR-12909 · 2HCl

CAS# 67469-78-7

1-[2-[Bis-(4-fluorophenyl)methoxy]ethyl]-4-(3-phenylpropyl)piperazine dihydrochloride; Vanoxerine

Lot # X101626



Potent and selective inhibitor of dopamine reuptake (K_i = 1 nM) with greater than 100 fold selectivity over serotonin and noradrenaline.[1] Also acts as a potent sigma receptor ligand.[2] Very fast acting via i.v. administration.[3] Potential new antiarrythmic.[4]

1) Andersen *et al*. (1989), *The dopamine inhibitor GBR 12909: selectivity and molecular mechanism of action*; Eur. J. Pharmacol., **166** 493

2) Contreras *et al*. (1990), *GBR-12909 and fluspirilene potently inhibited binding of [3H] (+)3-PPP to sigma receptors in rat brain*; Life Sci., **47** PL133

3) Yorgason *et al*. (2011), *Low and high affinity dopamine transporter inhibitors block dopamine uptake within 5 sec of intravenous injection*; Neuroscience, **182** 125

4) Lacerda *et al.* (2010), *Vanoxerine: Cellular Mechanism of a New Antiarrythmic;* J.Cardiovasc.Electrophys. **21** 301

PHYSICAL DATA

Molecular Weight:	523.50
Molecular Formula:	$C_{28}H_{32}F_2N_2O \cdot 2HCl$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml with warming) or Water (up to 10 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com