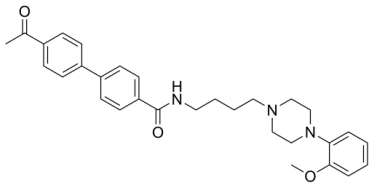
Data Sheet

Product Name:	GR 103691
Cat. No.:	CS-0021267
CAS No.:	162408-66-4
Molecular Formula:	$C_{30}H_{35}N_3O_3$
Molecular Weight:	485.62
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : 5 mg/mL (ultrasonic;warming;heat to 80°C)



BIOLOGICAL ACTIVITY:

GR 103691 is a potent, selective **dopamine D_3 receptor** antagonist with a **K_i** value of 0.4 nM. GR 103691 shows more than 100-fold selectivity for human dopamine human (h)D_3 over hD_4 and hD_1 sites[1]. IC50 & Target: Ki: 0.4 nM (Human dopamine D_3 receptor)[1]
In Vitro: GR 103691 shows marked affinity for serotonin1A (5-HT1A) receptors (**K_i** of 5.8 nM) and α-1 adrenoceptors (**K_i** of 12.6 nM)[1]
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References:

[1]. Audinot V, et al. A comparative in vitro and in vivo pharmacological characterization of the novel dopamine D3 receptor antagonists (+)-S 14297, nafadotride, GR 103,691 and U 99194. J Pharmacol Exp Ther. 1998 Oct;287(1):187-97.

CAIndexNames:

[1,1'-Biphenyl]-4-carboxamide, 4'-acetyl-N-[4-[4-(2-methoxyphenyl)-1-piperazinyl]butyl]-

SMILES:

O=C(C1=CC=C(C2=CC=C(C(C)=O)C=C2)C=C1)NCCCCN3CCN(C4=CC=CC=C4OC)CC3

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