

Product Datasheet

Guanabenz (orb1224901)

Catalog Number	orb1224901
Category	Small Molecules
Description	<p>Guanabenz (WY 8678) is an α_2 adrenergic receptor agonist that is used as an antihypertensive agent, also has been proposed to exert protective effects against misfolding by interfering with eIF2α-P dephosphorylation through selective disruption of a PP1-PPP1R15A holophosphatase complex; also has antiparasitic activity against replicative stages of Toxoplasma. Multiple Sclerosis Phase 1 Clinical(In Vitro):Guanabenz hydrochloride (0.5-50 μM, 24 h) is treated with increasing concentrations for 24 hours not affect cell viability.Guanabenz hydrochloride (0.5-50 μM, 24 h) alone not affects the UPR targets, neither on mRNA or protein level nor the phosphorylation status of eIF2α. Guanabenz also not induces GADD34 or the constitutively active form CREP.Guanabenz hydrochloride (0.5-50 μM, 24 h) alone not induces ER stress in neonatal rat cardiomyocytes.\n(In Vivo):Guanabenz hydrochloride (5 mg/kg/day; i.p.; for 3 weeks) can reproducibly reduce brain cyst burden.Guanabenz hydrochloride (5 mg /kg/d, i.p., oral; 10 mg/kg/d, gavage; for 3 weeks) reverses Toxoplasma-induced hyperactivity in latently infected mice.Guanabenz hydrochloride (100 and 320 μg/kg and 1 mg/kg, i.v., over a period of 5 min at intervals of 40 min) reduces sympathetic outflow, heart rate and blood pressure in debuffered cats.</p>
Target	Protein Phosphatase/PTP
Purity	>98% (HPLC)
MW	231.08
Target Areas	Protein Phosphatase/PTP
CAS Number	5051-62-7
Formula	C ₈ H ₈ Cl ₂ N ₄
SMILES	N/C(N)=N\N=C\C1=C(Cl)C=CC=C1Cl

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

Chemical Name	2-[(E)-(2,6-dichlorophenyl)methylideneamino]guanidine
Storage	Storage temperature: -20°C. Stability: \geq 2 years
Note	For research use only
Expiration Date	12 months from date of receipt.

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7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

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68 TW Alexander Drive
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Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)