

## Certificate Of Analysis

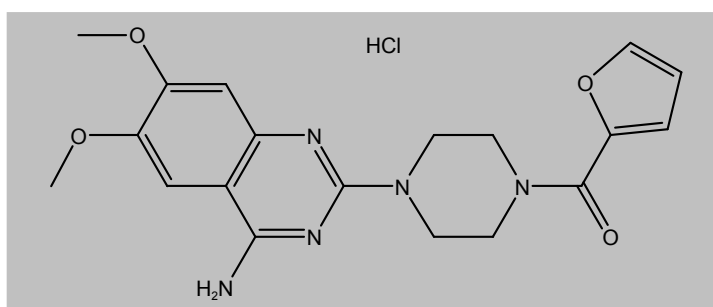
### Quality Control Testing and Research Application

COA Preparation Date: 23/09/2013  
COA Revision Date: 23/09/2016

**Product:** Prazosin hydrochloride  
**Cat. No.:** BG0291  
**Batch No.:** 0291BG/02  
**Chemical Name:** [4-(4-Amino-6,7-dimethoxy-quinazolin-2-yl)piperazin-1-yl]-(2-furyl)methanone hydrochloride

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>21</sub>N<sub>5</sub>O<sub>4</sub> .HCl  
**Batch Molecular Weight:** 419.86  
**CAS No.:** [19237-84-4]  
**Physical Appearance:** White solid  
**Melting Point:**  
**Solubility:** Soluble to 25 mM in DMSO or to 5 mM in ethanol  
**Storage:** RT  
**Batch Molecular Structure:**



**Product Description:** An  $\alpha_1$  ( $K_D = 0.1$  nM, rat),  $\alpha_{2B}$  ( $K_i = 31.6$  nM) and  $\alpha_{2C}$  ( $K_i = 31.6$  nM) adrenoceptor antagonist. Also a potent Melatonin MT<sub>3</sub> receptor antagonist ( $K_i = 10.2$  nM).

**References:** 1. Reader et al. (1987) J Neural Transm 68:79; 2. Paul et al. (1999) J Pharmacol Exp Ther 290:334; 3. Alexander et al. (2005) Br J Pharmacol 144:S4

- CAUTION - Not fully tested. For Research use only. Not for human use. -

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**BG0291 Prazosin hydrochloride**

**2. ANALYTICAL DATA**

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Water content: 0.3% (complies); Assay: > 99% (complies)

Test Item	Specifications	Results
Appearance	White or almost white crystalline powder	Conforms
Identification	A,B,C,D,Test comply as per EP	Conforms
Water	≤ 0.5%	0.3%
Residue on Ignition	≤ 0.1%	0.04%
Iron	≤ 10PPM	Conforms
Nickel	≤ 50PPM	Conform
Related Substances(HPLC)		
Single Impurities	≤ 0.2%	0.1%
Total Impurities	≤ 0.5%	0.3%
Assay	98.5%~101.0%	99.8%
Conclusion: Conforms with the standard of EP		

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