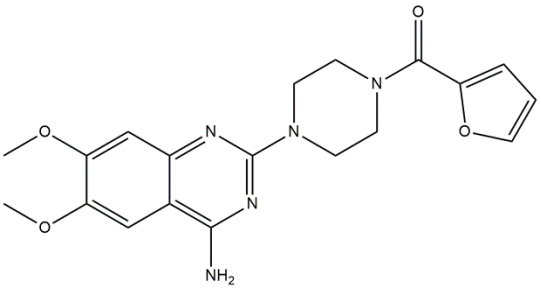
07/20

Prazosin

ALTERNATE NAMES: Furazosin; [4-(4-amino-6,7-dimethoxyquinazolin-2-yl)piperazin-1-yl]-(furan-2-yl)methanone

CATALOG #:
B3055-1 1 mg
B3055-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{19}H_{21}N_5O_4$

MOLECULAR WEIGHT: 383.4

CAS NUMBER: 19216-56-9

APPEARANCE: Solid

PURITY: ≥95%

SOLUBILITY: Slightly soluble in DMSO

DESCRIPTION: Prazosin is an antagonist of α1-adrenergic receptors (α1-ARs). The affinity estimates (pK_i) for inhibition of [3H]-prazosin binding to CHO-K1 cells expressing cloned human α1A, α1B and α1D adrenoceptors are 9.0, 9.9 and 9.5 respectively. It also inhibits α2-ARs with K_i values of 340 nM and 3.7 nM in α2A-AR expressing HT-29 cells and α2B-AR expressing NG108 cells respectively. It is used in the treatment of hypertension, anxiety and post-traumatic stress disorder. It is in clinical trials to prevent cytokine storm in patients with COVID-19.

STORAGE TEMPERATURE: -20ºC. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Williams, T.J., Blue, D.R., Daniels, D.V., et al. In vitro a1-adrenoceptor pharmacology of Ro 70-0004 and RS-100329, novel a1A-adrenoceptor selective antagonists. British Journal of Pharmacology 127, 252-258 (1999).
2. Bylund, D.B., and Ray-Prenger, C. Alpha-2A and alpha-2B adrenergic receptor subtypes: Attenuation of cyclic AMP production in cell lines containing only one receptor subtype. J. Pharmacol. Exp. Ther. 251(2), 640-644 (1989).

RELATED PRODUCTS:

Remdesivir (Cat. No. B2997)
Guanfacine hydrochloride (Cat. No. B2990)
Amlodipine besylate (Cat. No. 2378)
Renin Inhibitor (Cat. No. 2084)
Enalapril Maleate (Cat. No. B2131)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***