Product Data Sheet

Chemical Properties

**Product Name:** Doxazosin Mesylate  
**Cas No.:** 77883-43-3  
**M.Wt:** 547.58  
**Formula:** C23H25N5O5.CH4O3S

Chemical Name: [4-(4-amino-6,7-dimethoxyquinazolin-2-yl)piperazin-1-yl]-{(2,3-dihydro-1,4-benzodioxin-3-yl)methanone;methanesulfonic acid

Canonical SMILES: COC1=C(C=C2C(=C1)C(=NC(=N2)N3CCN(CC3)C(=O)C4COC5=CC=CC=C5O4)N)OC.CS(=O)(=O)O

**Solubility:** Soluble in DMSO > 10 mM  
**Storage:** Store at -20°C  
**General tips:** For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

**Shopping Condition:** Evaluation sample solution: ship with blue ice  
All other available size: ship with RT, or blue ice upon request

Biological Activity

**Targets:** GPCR/G protein  
**Pathways:** Adrenergic Receptor  
**Description:**

Doxazosin Mesylate is a selective, long-lasting antagonist of α1-adrenergic receptor [1]. Doxazosin Mesylate has been reported to potentiate contraction response to 5-HT in a dose-dependent manner [1]. Doxazosin significantly reduced alcohol drinking and increased water intake in adult male P rats [2].
Studies has indicated that doxazosin could inhibit TNF-α expression in LPS-induced systemic inflammation model as well as reduce the MCP-1 production in LPS-induced pulmonary inflammation model. Additionally, Doxazosin decreased thickness of footpad in the delayed-type hypersensitivity mice model. Doxazosin had been reported to slightly reduce MCP-1 level in the peritoneal cavity of mice induced by thioglycollate [3].

Reference:

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.