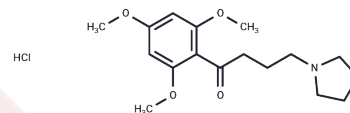


## Buflomedil hydrochloride

## Chemical Properties

CAS No. :	35543-24-9
Formula:	C <sub>17</sub> H <sub>26</sub> ClNO <sub>4</sub>
Molecular Weight:	343.85
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Buflomedil hydrochloride (Fonzylane), a vasodilator, is used in therapy of claudication or the symptoms of the peripheral arterial disease.
Targets(IC50)	Adrenergic Receptor
In vitro	Buflomedil enhances intracellular cAMP levels in human keratinocytes, either secondary to adenylyl-cyclase stimulation (BC) or phosphodiesterase inhibition (PTX). Buflomedil diminishes release of TPA-induced TNF-alpha and IL-8 in keratinocytes; in the case of IL-8, this inhibition may occur to transcriptional level. At the micromolar level, Buflomedil notably inhibits epinephrine-induced aggregation. Buflomedil leads to a weak inhibition of collagen- and ADP-induced aggregation. Buflomedil inhibits grainy secretion and the interaction of fibrinogen with its receptor on platelet. the capillary perfusion is improved by Buflomedil hypochloride in such related situations, evoking a possible effect upon neutrophils. Buflomedil Completely inhibits adhesion of histamine related neutrophil (flow system) and partially inhibits adhesion after IL-1-4 hours (flow and stable systems). Buflomedil lowers the hypoxia-induced neutrophil adhesion and expression of P-selectin at the surface of endothelial cells.

## Solubility Information

Solubility	Ethanol: 7 mg/mL (20.36 mM),Sonication is recommended. H2O: 63 mg/mL (183.22 mM),Sonication is recommended. DMSO: 50 mg/mL (145.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9082 mL	14.5412 mL	29.0824 mL
5 mM	0.5816 mL	2.9082 mL	5.8165 mL
10 mM	0.2908 mL	1.4541 mL	2.9082 mL
50 mM	0.0582 mL	0.2908 mL	0.5816 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

- Ishitsuka Y, et al. J Pharmacol Sci, 2009, 111(2), 211-215.  
Imamura T, et al. Arzneimittelforschung, 2003, 53(10), 688-694.  
Ichikawa K, et al. Pharmacology, 1999, 59(5), 257-265.  
Ishitsuka Y, et al. J Pharm Pharmacol, 2004, 56(4), 513-520.

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