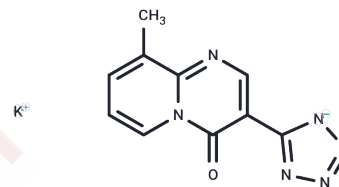


## Pemirolast potassium

## Chemical Properties

CAS No. :	100299-08-9
Formula:	C <sub>10</sub> H <sub>7</sub> KN <sub>6</sub> O
Molecular Weight:	266.31
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Pemirolast Potassium is the potassium salt form of pemirolast, a pyrimidinone derivative with antiallergic property. Pemirolast potassium (TWT-8152) exerts its action by blocking the antigen-mediated calcium ion influx into mast cells.
Targets(IC50)	Histamine Receptor
In vitro	Pemirolast potassium inhibits the release of peptides from sensory nerves (substance P, neurokinin (NK) A, and CGRP) and inhibits the release of chemical mediators from tissue mast cells, which are commonly used in the treatment of allergic reactions.
In vivo	Pemirolast potassium inhibits the release of peptides from sensory nerves (substance P, neurokinin (NK) A, and CGRP) and inhibits the release of chemical mediators from tissue mast cells, which are commonly used in the treatment of allergic reactions.

## Solubility Information

Solubility	H <sub>2</sub> O: 10 mM, Sonication is recommended. DMSO: Insoluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.755 mL	18.7751 mL	37.5502 mL
5 mM	0.751 mL	3.755 mL	7.510 mL
10 mM	0.3755 mL	1.8775 mL	3.755 mL
50 mM	0.0751 mL	0.3755 mL	0.751 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Kemp JP, et al. Ann Allergy, 1992, 68(6), 488-491.  
Tatsushima Y, et al. Eur J Pharmacol, 2011, 661(1-3), 57-62.  
Itoh Y, et al. Neuropharmacology, 2004, 46(6), 888-894.  
Abelson MB, et al. J Ocul Pharmacol Ther, 2002, 18(5), 475-488.

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