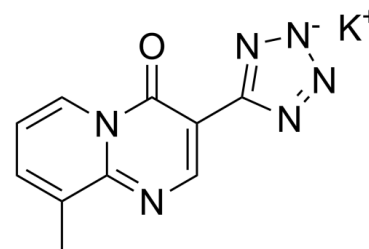


Data Sheet

Product Name:	Pemirolast (potassium)
Cat. No.:	CS-2636
CAS No.:	100299-08-9
Molecular Formula:	C ₁₀ H ₇ KN ₆ O
Molecular Weight:	266.30
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Solubility:	H ₂ O : 50 mg/mL (187.76 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Pemirolast potassium (TWT-8152) is a histamine H1 antagonist and mast cell stabilizer that acts as an antiallergic agent. Target: Histamine H1 Receptor Pemirolast potassium (TWT-8152) is a new oral, nonbronchodilator antiallergy medication that is being evaluated for the therapy of asthma [1]. Pemirolast potassium (TWT-8152) inhibits chemical mediator release from tissue mast cells and is also shown to inhibit the release of peptides including substance P, Pemirolast potassium (TWT-8152) reduces kaolin intake by inhibition of substance P release in rats [2]. Pemirolast potassium (TWT-8152) potently attenuates paclitaxel hypersensitivity reactions through inhibition of the release of sensory neuropeptides in rats [3]. Pemirolast potassium (TWT-8152) potassium is used for the treatment of allergic conjunctivitis and prophylaxis for pulmonary hypersensitivity reactions to drugs such as paclitaxel [4].

References:

- [1]. Kemp, J.P., et al., Pemirolast, a new oral nonbronchodilator drug for chronic asthma. Ann Allergy, 1992. 68(6): p. 488-91.
- [2]. Tatsushima, Y., et al., Pemirolast reduces cisplatin-induced kaolin intake in rats. Eur J Pharmacol, 2011. 661(1-3): p. 57-62.
- [3]. Itoh, Y., et al., Pemirolast potently attenuates paclitaxel hypersensitivity reactions through inhibition of the release of sensory neuropeptides in rats. Neuropharmacology, 2004. 46(6): p. 888-94.
- [4]. Abelson, M.B., et al., Pemirolast potassium 0.1% ophthalmic solution is an effective treatment for allergic conjunctivitis: a pooled analysis of two prospective, randomized, double-masked, placebo-controlled, phase III studies. J Ocul Pharmacol Ther, 2002. 18(5): p. 475-88.

CAIndexNames:

9-Methyl-3-(1H-tetrazol-5-yl)-4H-pyrido[1,2-a]pyrimidin-4-one potassium salt

SMILES:

O=C1C(C2=N[N-]N=N2)=CN=C3N1C=CC=C3C.[K+]

Caution: Product has not been fully validated for medical applications. For research use only.

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