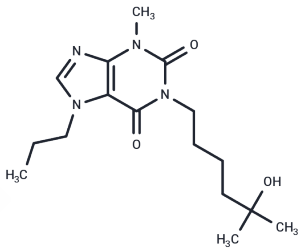
Data Sheet (Cat.No.T14075)

TargetMol

A-802715

Chemical Properties



CAS No. : 107767-58-8

Formula: C16H26N4O3

Molecular Weight: 322.4

Storage: Store at low temperature
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	A-802715 is a novel methylxanthine derivative that decreases the endogenous formation and blood levels of pro-inflammatory substances and increases the formation and blood levels of anti-inflammatory substances such as interleukin 10 receptor and tumor necrosis factor receptor.
Targets(IC50)	Others,IL Receptor,TNF
In vitro	The toxicity of the methylxanthine derivative A802715 was evaluated using vital dye staining assays against two human melanoma lines, Be11 and MeWo, and two human squamous cell carcinoma lines, 4197 and 4451. A802715 demonstrated the highest toxicity, with a TD50 of 0.9-1.1 mM. BrdU incorporation assays in p53 wt cells indicated that A802715 significantly enhances irradiation-induced suppression of S-phase entry. Depending on the p53 status, A802715 either prolongs the G2/M block or remains ineffective [1].

Solubility Information

Solubility	DMSO: 60 mg/mL (186.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (15.51 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1017 mL	15.5087 mL	31.0174 mL
5 mM	0.6203 mL	3.1017 mL	6.2035 mL
10 mM	0.3102 mL	1.5509 mL	3.1017 mL
50 mM	0.062 mL	0.3102 mL	0.6203 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

Bohm L, et al. Influence of pentoxifylline, A-802710, propentofylline and A-802715 (Hoechst) on the expression of cell cycle blocks and S-phase content after irradiation damage. Biochim Biophys Acta. 2000 Dec 11;1499(1-2):1-10.