

产品名称: **BIBX 1382**
 产品别名: **Falnidamol**

生物活性:				
Description	Falnidamol (BIBX 1382) is an orally active, selective EGFR tyrosine kinase inhibitor with an IC50 of 3 nM. Falnidamol displays > 1000-fold lower potency against ErbB2 (IC50=3.4 μM) and a range of other related tyrosine kinases (IC50>10 μM). Falnidamol is a pyrimido-pyrimidine compound and has anti-cancer activity[1][2].			
	EGFR	ErbB2		
IC50 & Target	3 nM (IC50)	3.4 μM (IC50)		
	In Vitro			
In Vivo	Falnidamol (BIBX 1382) demonstrates antiproliferative activity in mitogenic assays performed with KB cells[2].			
	Falnidamol (BIBX 1382; p.o.; 10 mg/kg/day; 16 days) completely suppressed tumor growth of human A431 xenografts with respective a T/C value of 15% after 2 weeks of treatment[2].			
	Falnidamol (50 mg/kg/day for 2 weeks) results in dephosphorylation of the EGF receptor in A431 xenograft-bearing mice[2].			
	With Falnidamol (p.o.; 10 mg/kg/day; 16 days), the C4h is 2222 nM and the C24h is 244 nM[2].			
	Animal Model:	Five- to six-week-old athymic NMRI-nu/nu female mice (21-31 g) with A431, FaDu, or HN5 cells[2]		
	Dosage:	10 mg/kg		
	Administration:	p.o.; daily; 16 days		
	Result:	Completely suppressed tumor growth of human A431 xenografts with respective T/C values of 15 and 6% after 2 weeks of treatment.		
	Animal Model:	Five- to six-week-old athymic NMRI-nu/nu female mice (21-31 g) with A431 cells[2]		
Dosage:	10 mg/kg (Pharmacokinetic Analysis)			
Administration:	p.o.; daily; 16 days			
Result:	The C4h is 2222 nM and the C24h is 244 nM.			
In Vitro:				
DMSO : ≥ 41 mg/mL (105.71 mM)				
* "≥" means soluble, but saturation unknown.				
Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5784 mL	12.8919 mL	25.7838 mL
	5 mM	0.5157 mL	2.5784 mL	5.1568 mL
	10 mM	0.2578 mL	1.2892 mL	2.5784 mL
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。				
储备液的保存方式和期限 -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。				
In Vivo:				
请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液, 再依次添加助溶剂。				

Solvent&Solubility	——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用； 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶 1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 1.67 mg/mL (4.31 mM); Clear solution 此方案可获得 ≥ 1.67 mg/mL (4.31 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例，取 100 μL 16.699999 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀；向上述体系中加入 50 μL Tween-80，混合均匀；然后继续加入 450 μL 生理盐水定容至 1 mL。
References	[1]. <u>Dittrich Ch, et al. Phase I and pharmacokinetic study of BIBX 1382 BS, an epidermal growth factor receptor (EGFR) inhibitor, given in a continuous daily oral administration. Eur J Cancer. 2002 May;38(8):1072-80.</u> [2]. <u>Solca FF, et al. Inhibition of epidermal growth factor receptor activity by two pyrimidopyrimidine derivatives. J Pharmacol Exp Ther. 2004 Nov;311(2):502-9.</u>

源叶生物