Data Sheet (Cat.No.T7911)

TargetMol

Arbidol

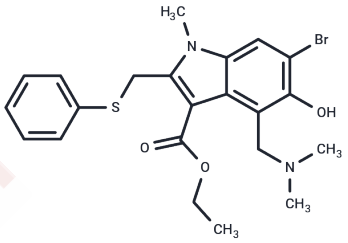
Chemical Properties

CAS No. : 131707-25-0

Formula: C22H25BrN2O3S

Molecular Weight: 477.42

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	Umifenovir is a potent, orally active broad-spectrum antiviral agent with activity against enveloped and non-enveloped viruses, suppressing virus propagation and modulating the expression of inflammatory cytokines for use as an anti-influenza virus agent [3]. It effectively inhibits the fusion of the virus with host cells [1] [2] and is an efficient inhibitor of SARS-CoV-2 in vitro [2].
Targets(IC50)	Antiviral,Influenza Virus,SARS-CoV
In vitro	Arbidol exhibits potent antiviral activity against a wide range of viruses, including influenza viruses A, B, and C, respiratory syncytial virus, SARS-CoV, adenovirus, parainfluenza type 5, poliovirus 1, rhinovirus 14, coxsackievirus B5, hantaan virus, Chikungunya virus, HBV, and HCV.[1]
In vivo	Arbidol (25 and 45 mg/ml; p.o.; 6-8 weeks old BALB/c mice) shows a survival benefit to mice suffering from influenza infection. Increased the survival rate, inhibited the decrease of body weight at 45 mg/mL, and inhibited the increase of mice lung index at 25 mg/mL and 45 mg/mL compared to the virus group.[3]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0946 mL	10.473 mL	20.9459 mL
5 mM	0.4189 mL	2.0946 mL	4.1892 mL
10 mM	0.2095 mL	1.0473 mL	2.0946 mL
50 mM	0.0419 mL	0.2095 mL	0.4189 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

Blaising J, et al. Arbidol as a broad-spectrum antiviral: an update. Antiviral Res. 2014 Jul;107:84-94.
Leneva I, et al. Antiviral Activity of Umifenovir In Vitro against a Broad Spectrum of Coronaviruses, Including the Novel SARS-CoV-2 Virus. Viruses. 2021 Aug 23;13(8):1665.
Wang Y, et al. Inhibition of the infectivity and inflammatory response of influenza virus by Arbidol hydrochloride in vitro and in vivo (mice and ferret). Biomed Pharmacother. 2017 Jul;91:393-401.

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