

Umifenovir, Antiviral agent

Catalog	Unit
TBI4472-10MG	10 mg
TBI4472-50MG	50 mg

Product Details

Formal Name: 6-bromo-4-[(dimethylamino)methyl]-5-hydroxy-1-methyl-2-[(phenylthio)methyl]-1H-indole-3-carboxylic acid, ethyl ester, monohydrochloride

Alternate Names: Arbidol

Molecular Formula: C₂₂H₂₅BrN₂O₃S • HCl

Formula Weight: 513.90

CAS Number: 131707-23-8

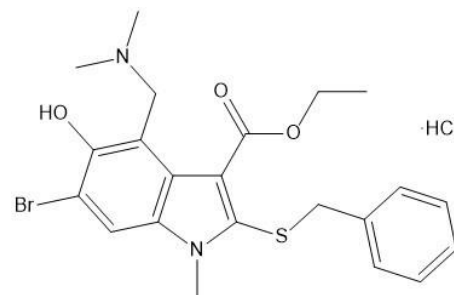
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to at least 15 mg/ml) or in Ethanol (up to at least 10 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Antiviral agent

Functions

Umifenovir (131707-23-8) is a broad-spectrum antiviral medication. It has shown activity against influenza A,B,and C, respiratory syncytial, SARS-CoV, adeno, parainfluenza type 5, polio, rhino, coxsackie, hanta, chikungunya, hepatitis B and C viruses. It blocks hemagglutinin-mediated membrane fusion of influenza virus particles. Umifenovir has recently been shown to inhibit SARS-CoV2 infection by blocking virus entry as well as release from endolysosomes during intracellular trafficking. It has been suggested that Umifenovir may block trimerization of the spike glycoprotein, a key step in host cell adhesion.

Application Procedures

First dissolved in DMSO (up to at least 15 mg/ml) or in Ethanol (up to at least 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.