Umifenovir hydrochloride c22h26brcln2o3s structure

Contents

- Bio Activity:

Molecular Formula $C_{22}H_{26}BrClN_2O_3S$

Average mass 513. 875 Da

Density

Boiling Point

Flash Point

Molar Refractivity

Polarizability

Surface Tension

Molar Volume

- Experimental data
- Predicted – ACD/Labs
- Predicted – ChemAxon
- Experimental Physico-chemical Properties

- **Experimental Melting Point:**

  133 °CBiosynthJ-

  501287

  133-137 °C

  (Decomposes)LabNet

  workLN00191929

- **Experimental Solubility:**

  DMSO 48

  mg/mlMedChem

  ExpressHY-14904A

  in DMSO > 10

  mMMedChem

  ExpressHY-14904A

- Miscellaneous

  - **Safety:**

    IRRITANTMatrix

    Scientific092967

  - **Bio Activity:**

    Anti-

    infectionMedChem

ExpressHY-14904A

Anti-infection;

MedChem

ExpressHY-14904A

Arbidol (Umifenovir)

hydrochloride is an

broad-spectrum

antiviral chemical

agent which can

inhibit cell entry of

enveloped viruses by

blocking viral fusion

with host cell

membraneMedChem

Express

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membrane; IC50 value:; Target: Antiviral; Anti-influenza agent; in vitro: Arbidol was found to present potent inhibitory activity against enveloped and non-enveloped RNA viruses, including FLU-A, RSV, HRV 14 and CVB3 when added before, during, or after viral infection, with 50% inhibitory concentration (IC50) ranging from 2. 7 to 13. 8 microg/ml. However, arbidol showed selective antiviral activity against AdV-7, a DNA virus, only when

added after infection (therapeutic index (TI) = 5. 5) [1].

MedChem ExpressHY-14904A

Arbidol (Umifenovir) hydrochloride is an broad-spectrum antiviral chemical agent which can inhibit cell entry of enveloped viruses by blocking viral fusion with host cell membrane; IC50 value:; Target: Antiviral; Anti-influenza agent; In vitro: Arbidol was found to present potent inhibitory activity against enveloped and non-enveloped RNA viruses, including

FLU-A, RSV, HRV 14 and CVB3 when added before, during, or after viral infection, with 50% inhibitory concentration (IC50) ranging from 2. 7 to 13. 8 microg/ml. However, arbidol showed selective antiviral activity against AdV-7, a DNA virus, only when added after infection (therapeutic index (TI) = 5. 5) [1]. Arb interacts with the polar head-group of phospholipid at the membrane interface. Fluorescence studies of interactions between Arb and either tryptophan

derivatives or membrane peptides reconstituted into liposomes show that Arb interacts with tryptophan in the micromolar range. Interestingly, apparent binding affinities between

lMedChem ExpressHY-14904A

Influenza VirusMedChem ExpressHY-14904A

Predicted data is generated using the ACD/Labs Percepta Platform – PhysChem Module

No predicted properties have been calculated for this compound.

Density:

Boiling Point:

Vapour Pressure:

Enthalpy of Vaporization:

Flash Point:

Index of Refraction:

Molar Refractivity:

#H bond acceptors:

#H bond donors:

#Freely Rotating Bonds:

#Rule of 5 Violations:

ACD/LogP:

ACD/LogD (pH 5. 5):

ACD/BCF (pH 5. 5):

ACD/KOC (pH 5. 5):

ACD/LogD (pH 7. 4):

ACD/BCF (pH 7. 4):

ACD/KOC (pH 7. 4):

Polar Surface Area:

Polarizability:

Surface Tension:

Molar Volume:

Click to predict properties on the Chemicalize site