

# [Umifenovir hydrochloride c22h26brcln2o3s structure](https://assignbuster.com/umifenovir-hydrochloride-c22h26brcln2o3s-structure/)

Contents

* Bio Activity:

|  |  |
| --- | --- |
| Molecular Formula  | C 22 H 26 BrClN 2 O 3 S  |
| 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)LabNetworkLN00191929  |

## 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  |
| 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]. 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