**IACS-010759 hydrochloride**

**Cat. No.**: HY-112037A  
**CAS No.**: 1807523-99-4  
**Molecular Formula**: C$_{25}$H$_{26}$ClF$_3$N$_6$O$_4$S  
**Molecular Weight**: 599.02  
**Target**: Apoptosis  
**Pathway**: Apoptosis  
**Storage**:  
- **Powder**: -20°C 3 years  
- **4°C**: 2 years  
- **In solvent**: -80°C 6 months  
- **-20°C**: 1 month

**SOLVENT & SOLUBILITY**

**In Vitro**  
DMSO: $\geq$ 100 mg/mL (166.94 mM)  
H$_2$O: $< 0.1$ mg/mL (insoluble)  
* "$\geq$" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration</td>
<td>1 mg</td>
</tr>
<tr>
<td></td>
<td>1 mM</td>
<td>1.6694 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3339 mL</td>
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<tr>
<td></td>
<td>10 mM</td>
<td>0.1669 mL</td>
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</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**  
1. Add each solvent one by one: 10% DMSO $>>$ 90% corn oil  
   Solubility: $\geq 2.5$ mg/mL (4.17 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**  
IACS-010759 (IACS-10759) hydrochloride is a potent inhibitor of complex I of oxidative phosphorylation (OXPHOS).

**IC$_{50}$ & Target**  
OXPHOS$^{[1]}$

**In Vitro**  
IACS-010759 (IACS-10759) inhibits the conversion of NADH to NAD$^+$ in an immunoprecipitated complex I assay at low nM concentrations$^{[1]}$.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**In Vivo**  
IACS-010759 (IACS-10759) is orally bioavailable with excellent physicochemical properties in preclinical species and achieves significant in vivo efficacy with daily oral dosing of 10-25 mg/kg. There is a $>$50 day extension of median survival in an
orthotopic AML cell line xenograft and robust regression in DLBCL and GBM xenograft models\cite{1}. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.
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