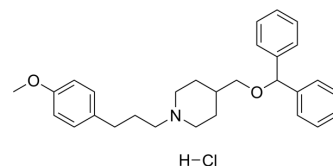


UK-78282 hydrochloride

Cat. No.:	HY-W013727
CAS No.:	136647-02-4
Molecular Formula:	C ₂₉ H ₃₆ ClNO ₂
Molecular Weight:	466.05
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (214.57 mM; Need ultrasonic)																	
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th rowspan="2">Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>2.1457 mL</td> <td>10.7285 mL</td> <td>21.4569 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4291 mL</td> <td>2.1457 mL</td> <td>4.2914 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2146 mL</td> <td>1.0728 mL</td> <td>2.1457 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	2.1457 mL	10.7285 mL	21.4569 mL	5 mM	0.4291 mL	2.1457 mL	4.2914 mL	10 mM	0.2146 mL	1.0728 mL	2.1457 mL
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	Please refer to the solubility information to select the appropriate solvent.																	
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution 																	

BIOLOGICAL ACTIVITY

Description	UK-78282, a novel piperidine, potent and selective Kv1.3 blocker with an IC ₅₀ of 200 nM. UK-78,282 effectively suppresses human T-lymphocyte activation in vitro. UK-78,282 binds to residues at the inner surface of the channel overlapping the site of action of verapamil ^[1] .
IC₅₀ & Target	IC50: 200 nM (Kv1.3) ^[1]

REFERENCES

[1]. D C Hanson, et al. UK-78,282, a novel piperidine compound that potently blocks the Kv1.3 voltage-gated potassium channel and inhibits human T cell activation. Br J Pharmacol. 1999 Apr;126(8):1707-16

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

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