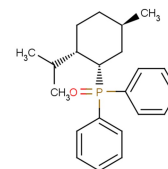


DPO-1

**Chemical Properties**

CAS No.: 43077-30-1  
Formula: C<sub>22</sub>H<sub>29</sub>OP  
Molecular Weight: 340.44  
Appearance: N/A  
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

| Description  |
|--|
| DPO-1 is a blocker of IK <sub>ur</sub> ultrarapid delayed rectifier potassium current and KV1.5 channels |

**Solubility Information**

| Solubility   |
|--|
| Ethanol: <34.04mg/ml<br>( < 1 mg/ml refers to the product slightly soluble or insoluble) |

## Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 2.937 mL | 14.687 mL | 29.374 mL |
| 5 mM  | 0.587 mL | 2.937 mL  | 5.875 mL  |
| 10 mM | 0.294 mL | 1.469 mL  | 2.937 mL  |
| 50 mM | 0.059 mL | 0.294 mL  | 0.587 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Tsvetkov D , Tano J Y , K Assmann M , et al. The Role of DPO-1 and XE991-Sensitive Potassium Channels in Perivascular Adipose Tissue-Mediated Regulation of Vascular Tone.
2. Mondejar-Parreo G , Callejo M , Barreira B , et al. miR-1 is increased in pulmonary hypertension and downregulates Kv1.5 channels in rat pulmonary arteries[J]. The Journal of Physiology, 2018.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481