## Pyr6

| Cat. No.:          | HY-12504   |       |         |  |  |  |
|--------------------|--|-------|---------|--|--|--|
| CAS No.:           | 245747-08-   | 4     |         |  |  |  |
| Molecular Formula: | C <sub>17</sub> H <sub>9</sub> F <sub>7</sub> N₄O    |       |         |  |  |  |
| Molecular Weight:  | 418.27   |       |         |  |  |  |
| Target:            | TRP Channel  |       |         |  |  |  |
| Pathway:           | Membrane Transporter/Ion Channel; Neuronal Signaling |       |         |  |  |  |
| Storage:           | Powder   | -20°C | 3 years |  |  |  |
|                    |  | 4°C   | 2 years |  |  |  |
|                    | In solvent   | -80°C | 2 years |  |  |  |
|                    |  | -20°C | 1 vear  |  |  |  |

### SOLVENT & SOLUBILITY

| In Vitro DMSO : ≥ 100 mg<br>* "≥" means solu<br>Preparing<br>Stock Solutions | DMSO : ≥ 100 mg/mL (239.08 mM)<br>* "≥" means soluble, but saturation unknown.  |                               |           |            |            |  |  |
|--|---|-------------------------------|-----------|------------|------------|--|--|
|  | Preparing<br>Stock Solutions  | Solvent Mass<br>Concentration | 1 mg      | 5 mg       | 10 mg      |  |  |
|  |   | 1 mM                          | 2.3908 mL | 11.9540 mL | 23.9080 mL |  |  |
|  |   | 5 mM                          | 0.4782 mL | 2.3908 mL  | 4.7816 mL  |  |  |
|  |   | 10 mM                         | 0.2391 mL | 1.1954 mL  | 2.3908 mL  |  |  |
|  | Please refer to the solubility information to select the appropriate solvent.   |                               |           |            |            |  |  |
| In Vivo  | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 10 mg/mL (23.91 mM); Clear solution |                               |           |            |            |  |  |
|  | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 10 mg/mL (23.91 mM); Clear solution         |                               |           |            |            |  |  |
|  | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 10 mg/mL (23.91 mM); Clear solution                         |                               |           |            |            |  |  |

### **BIOLOGICAL ACTIVITY**

### Description

Pyr6 is a selective inhibitor of TRPC3 with IC50 of 0.49 uM(Ca2+ influx inhibition in thapsigargin depleted native RBL-2H3 cells).IC50 value: 0.49 uM [1]Target: TRPC3 inhibitorPyr6 is a selective SOCE inhibitor (Yonetoku et al., 2008; Sweeney et al., 2009), Pyr6 displayed 37-fold (1.58 OM) higher potency for RBL SOCE than for TRPC3 ROCE, with an IC50 comparable to that of Pyr2 and Pyr3. Pyr6 at 3 uM diminished TRPC3 currents to only 52%. Consistent with inhibition of Orai channel activity Pyr2, Pyr3 or Pyr6 substantially inhibited typical Orai downstream signalling events in RBL mast cells (NFAT activation and degranulation) activated by passive store depletion.

# Product Data Sheet

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### CUSTOMER VALIDATION

• Sci Rep. 2017 Oct 16;7(1):12881.

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### REFERENCES

[1]. Schleifer H, et al. Novel pyrazole compounds for pharmacological discrimination between receptor-operated and store-operated Ca(2+) entry pathways. Br J Pharmacol. 2012 Dec;167(8):1712-22.

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

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