**Substance:** PCAP931

**Date:** 160517

**Zebrafish DOB:** 160507 (10 dpf)

**Aim:** Dose response PCAP931/ dark

**Volume in wells:** 1 ml + 20 µl

**Stock PCAP931 solution:** 10 mM in DMSO (50 µl)

**Dilute to:** **500 µM** (50 µl 10 mM PCAP931 + 950 µl E3)

**150 µM** (300 µl 500 µM PCAP931 + 700 µl E3)

**50 µM** (100 µl 500 µM PCAP931 + 900 µl E3)

**10 µM PCAP931:** (20 µl 500 µM PCAP931) / **3 µM PCAP931:** (20 µl 150 µM PCAP931) / **1 µM PCAP931:** (20 µl 50 µM PCAP931)

**Control:** 20 µl 5% DMSO/E3 (0.2% in wells)

**Stock Apomorphine solution:** 10 mM in E3 (50 µl)

**Dilute to: 2500 µM** (300 µl 10 mM Apomorphine + 900 µl E3)

Plate 1:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Well | 1 | 2 | 3 | 4 | 5 | 6 |
| A | PCAP931 10 µM | PCAP931 10 µM | PCAP931 10 µM | PCAP931 10 µM | PCAP931 10 µM | PCAP931 10 µM |
| B | PCAP931 3 µM | PCAP931 3 µM | PCAP931 3 µM | PCAP931 3 µM | PCAP931 3 µM | PCAP931 3 µM |
| C | PCAP931 1 µM | PCAP931 1 µM | PCAP931 1 µM | PCAP931 1 µM | PCAP931 1 µM | PCAP931 1 µM |
| D | Control | Control | Control | Control | Control | Control |

Plate 2:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Well | 1 | 2 | 3 | 4 | 5 | 6 |
| E | PCAP931 10 µM | PCAP931 10 µM | PCAP931 10 µM | PCAP931 10 µM | PCAP931 10 µM | PCAP931 10 µM |
| F | PCAP931 3 µM | PCAP931 3 µM | PCAP931 3 µM | PCAP931 3 µM | PCAP931 3 µM | PCAP931 3 µM |
| G | PCAP931 1 µM | PCAP931 1 µM | PCAP931 1 µM | PCAP931 1 µM | PCAP931 1 µM | PCAP931 1 µM |
| H | Control | Control | Control | Control | Control | Control |

File

**Add PCAP931**

**Record during 13x5 min in total darkness**

After 0 min: recording during 5 min 135653

After 5 min: recording during 5 min 140154

After 10 min: recording during 5 min 140656

After 15 min: recording during 5 min 141158

After 20 min: recording during 5 min 141700

After 25 min: recording during 5 min 142202

After 30 min: recording during 5 min 142704

After 35 min: recording during 5 min 143205

After 40 min: recording during 5 min 143707

After 45 min: recording during 5 min 144209

After 50 min: recording during 5 min 144711

After 55 min: recording during 5 min 145213

After 60 min: recording during 5 min 145715

**Add Apomorphine (50 µM) to all wells**

**Record during 13x5 min in total darkness**

After 0 min: recording during 5 min 150741

After 5 min: recording during 5 min 151243

After 10 min: recording during 5 min 151744

After 15 min: recording during 5 min 152246

After 20 min: recording during 5 min 152748

After 25 min: recording during 5 min 153251

After 30 min: recording during 5 min 153753

After 35 min: recording during 5 min 154255

After 40 min: recording during 5 min 154757

After 45 min: recording during 5 min 155259

After 50 min: recording during 5 min 155801

After 55 min: recording during 5 min 160303

After 60 min: recording during 5 min 160805

**Other conditions:** Cover blanket, light off (IR-light only)

Exposure: 1360 µsec, 300 s per recording

Thermostat: 31.5°C

Water temperature: in bath: 30.5°C in wells: 28.0°C

After experiment: all larvae terminated on ice