**Substance:** Aripiprazole (Aripip)

**Date:** 160808

**Zebrafish DOB:** 160729 (10 dpf)

**Aim:** Dose response Aripiprazole / light

**Volume in wells:** 0.5 ml + 0.5 ml

**Stock Aripiprazole solution:** 10 mM in DMSO

**Dilute to:** **20 µM** (40 µl 10 mM Aripiprazole + 19.960 ml E3)

**6 µM** (3 ml 20 µM Aripiprazole + 7 ml E3)

**2 µM** (1 ml 20 µM Aripiprazole + 9 ml E3)

**10 µM Aripiprazole:** (0.5 ml 20 µM Aripiprazole) / **3 µM Aripiprazole:** (0.5 ml 6 µM Aripiprazole) / **1 µM Aripiprazole:** (0.5 ml 2 µM Aripiprazole)

**Control:** 0.5 ml 0.2% DMSO/E3 (0.1% in wells)

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

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

**25 µM** (60 µl 500 µM Apomorphine + 1140 µl E3)

Plate 1:

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

Plate 2:

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

File

**Add Aripiprazole**

**Record during 13x5 min in light**

After 0 min: recording during 5 min 123648

After 5 min: recording during 5 min 124149

After 10 min: recording during 5 min 124651

After 15 min: recording during 5 min 125152

After 20 min: recording during 5 min 125654

After 25 min: recording during 5 min 130156

After 30 min: recording during 5 min 130657

After 35 min: recording during 5 min 131158

After 40 min: recording during 5 min 131700

After 45 min: recording during 5 min 132201

After 50 min: recording during 5 min 132703

After 55 min: recording during 5 min 133205

After 60 min: recording during 5 min 133706

**Add Apomorphine (0.5 µM) to all wells**

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

After 0 min: recording during 5 min 135945

After 5 min: recording during 5 min 140448

After 10 min: recording during 5 min 140950

After 15 min: recording during 5 min 141452

After 20 min: recording during 5 min 141954

After 25 min: recording during 5 min 142456

After 30 min: recording during 5 min 142958

After 35 min: recording during 5 min 143500

After 40 min: recording during 5 min 144002

After 45 min: recording during 5 min 144504

After 50 min: recording during 5 min 145007

After 55 min: recording during 5 min 145509

After 60 min: recording during 5 min 150011

**Other conditions:** Cover blanket, light on

Exposure: 1350 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