**Substance:** Aripiprazole (Aripip)

**Date:** 160809

**Zebrafish DOB:** 160729 (11 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: 2500 µM** (300 µl 10 mM Apomorphine + 900 µl E3)

Plate 1:

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

Plate 2:

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

File

**Add Aripiprazole**

**Record during 13x5 min in light**

After 0 min: recording during 5 min 122712

After 5 min: recording during 5 min 123213

After 10 min: recording during 5 min 123715

After 15 min: recording during 5 min 124216

After 20 min: recording during 5 min 124718

After 25 min: recording during 5 min 125219

After 30 min: recording during 5 min 125720

After 35 min: recording during 5 min 130222

After 40 min: recording during 5 min 130724

After 45 min: recording during 5 min 131226

After 50 min: recording during 5 min 131728

After 55 min: recording during 5 min 132230

After 60 min: recording during 5 min 132732

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

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

After 0 min: recording during 5 min 134603

After 5 min: recording during 5 min 135105

After 10 min: recording during 5 min 135607

After 15 min: recording during 5 min 140110

After 20 min: recording during 5 min 140612

After 25 min: recording during 5 min 141114

After 30 min: recording during 5 min 141616

After 35 min: recording during 5 min 142118

After 40 min: recording during 5 min 142621

After 45 min: recording during 5 min 143123

After 50 min: recording during 5 min 143625

After 55 min: recording during 5 min 144128

After 60 min: recording during 5 min 144630

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

Exposure: 1320 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