**Substance:** Haloperidol (Halo)

**Date:** 160704

**Zebrafish DOB:** 160624 (10 dpf)

**Aim:** Dose response Haloperidol / light

**Volume in wells:** 1 ml + 20 µl

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

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

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

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

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

**Control:** 20 µl 5% DMSO/E3 (0.2% 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** (50 µl 500 µM Apomorphine + 950 µl E3)

Plate 1:

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

Plate 2:

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

File

**Add Haloperidol**

**Record during 13x5 min in light**

After 0 min: recording during 5 min 141715

After 5 min: recording during 5 min 142217

After 10 min: recording during 5 min 142718

After 15 min: recording during 5 min 143220

After 20 min: recording during 5 min 143722

After 25 min: recording during 5 min 144223

After 30 min: recording during 5 min 144724

After 35 min: recording during 5 min 145226

After 40 min: recording during 5 min 145728

After 45 min: recording during 5 min 150229

After 50 min: recording during 5 min 150731

After 55 min: recording during 5 min 151233

After 60 min: recording during 5 min 151734

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

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

After 0 min: recording during 5 min 152952

After 5 min: recording during 5 min 153453

After 10 min: recording during 5 min 153955

After 15 min: recording during 5 min 154457

After 20 min: recording during 5 min 154958

After 25 min: recording during 5 min 155500

After 30 min: recording during 5 min 160002

After 35 min: recording during 5 min 160503

After 40 min: recording during 5 min 161005

After 45 min: recording during 5 min 161507

After 50 min: recording during 5 min 162009

After 55 min: recording during 5 min 162511

After 60 min: recording during 5 min 163013

**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