**Substance:** Haloperidol (Halo)

**Date:** 160707

**Zebrafish DOB:** 160627 (10 dpf)

**Aim:** Dose response Haloperidol / dark

**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 (300 µl)

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

Plate 1:

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

Plate 2:

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

File

**Add Haloperidol**

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

After 0 min: recording during 5 min 122830

After 5 min: recording during 5 min 123331

After 10 min: recording during 5 min 123833

After 15 min: recording during 5 min 124334

After 20 min: recording during 5 min 124836

After 25 min: recording during 5 min 125337

After 30 min: recording during 5 min 125839

After 35 min: recording during 5 min 130340

After 40 min: recording during 5 min 130842

After 45 min: recording during 5 min 131344

After 50 min: recording during 5 min 131846

After 55 min: recording during 5 min 132348

After 60 min: recording during 5 min 132849

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

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

After 0 min: recording during 5 min 134929

After 5 min: recording during 5 min 135431

After 10 min: recording during 5 min 135933

After 15 min: recording during 5 min 140435

After 20 min: recording during 5 min 140937

After 25 min: recording during 5 min 141439

After 30 min: recording during 5 min 141941

After 35 min: recording during 5 min 142442

After 40 min: recording during 5 min 142945

After 45 min: recording during 5 min 143447

After 50 min: recording during 5 min 143949

After 55 min: recording during 5 min 144451

After 60 min: recording during 5 min 144953

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

Exposure: 1380 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