**Substance:** Cariprazine (Carip)

**Date:** 160824

**Zebrafish DOB:** 160813 (11 dpf)

**Aim:** Dose response Cariprazine/ light/dark

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

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

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

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

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

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

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

**PTZ solution:** 50 mM in E3 (50 µl to each well)

Plate 1:

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

Plate 2:

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

File

**Add Cariprazine**

**Record during 13x5 min in light/dark**

After 0 min: recording during 5 min (light) 140930

After 5 min: recording during 5 min (light) 141432

After 10 min: recording during 5 min (dark) 141934

After 15 min: recording during 5 min (dark) 142436

After 20 min: recording during 5 min (light) 142938

After 25 min: recording during 5 min (light) 143440

After 30 min: recording during 5 min (dark) 143942

After 35 min: recording during 5 min (dark) 144444

After 40 min: recording during 5 min (light) 144946

After 45 min: recording during 5 min (light) 145448

After 50 min: recording during 5 min (dark) 145950

After 55 min: recording during 5 min (dark) 150452

After 60 min: recording during 5 min (light) 150954

**Add PTZ (2.5 mM) to all wells**

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

After 0 min: recording during 5 min 152028

After 5 min: recording during 5 min 152530

After 10 min: recording during 5 min 153032

After 15 min: recording during 5 min 153534

After 20 min: recording during 5 min 154036

After 25 min: recording during 5 min 154538

After 30 min: recording during 5 min 155040

After 35 min: recording during 5 min 155542

After 40 min: recording during 5 min 160044

After 45 min: recording during 5 min 160547

After 50 min: recording during 5 min 161049

After 55 min: recording during 5 min 161551

After 60 min: recording during 5 min 162054

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

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