**Substance:** Cariprazine (Carip)

**Date:** 160823

**Zebrafish DOB:** 160813 (10 dpf)

**Aim:** Dose response Cariprazine / light

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

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

**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)

**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 | Carip 1 µM | Carip 1 1 µM | Carip 1 µM | Carip 1 µM | Carip 1 µM | Carip 1 µM |
| C | Carip 3 µM | Carip 3 µM | Carip 3 µM | Carip 3 µM | Carip 3 µM | Carip 3 µM |
| D | Carip 10 µM | Carip 10 µM | Carip 10 µM | Carip 10 µM | Carip 10 µM | Carip 10 µM |

Plate 2:

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

File

**Add Cariprazine**

**Record during 13x5 min in light**

After 0 min: recording during 5 min 150440

After 5 min: recording during 5 min 150941

After 10 min: recording during 5 min 151443

After 15 min: recording during 5 min 151945

After 20 min: recording during 5 min 152446

After 25 min: recording during 5 min 152948

After 30 min: recording during 5 min 153450

After 35 min: recording during 5 min 153951

After 40 min: recording during 5 min 154453

After 45 min: recording during 5 min 154954

After 50 min: recording during 5 min 155456

After 55 min: recording during 5 min 155958

After 60 min: recording during 5 min 160459

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

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

After 0 min: recording during 5 min 161528

After 5 min: recording during 5 min 162030

After 10 min: recording during 5 min 162532

After 15 min: recording during 5 min 163034

After 20 min: recording during 5 min 163536

After 25 min: recording during 5 min 164038

After 30 min: recording during 5 min 164540

After 35 min: recording during 5 min 165042

After 40 min: recording during 5 min 165544

After 45 min: recording during 5 min 170046

After 50 min: recording during 5 min 170548

After 55 min: recording during 5 min 171050

After 60 min: recording during 5 min 171553

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

Exposure: 1330 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