**Substance:** Cariprazine (Carip)

**Date:** 160824

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

**Aim:** Dose response Cariprazine / light

**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)

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

Plate 2:

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

File

**Add Cariprazine**

**Record during 13x5 min in light**

After 0 min: recording during 5 min 104929

After 5 min: recording during 5 min 105430

After 10 min: recording during 5 min 105932

After 15 min: recording during 5 min 110433

After 20 min: recording during 5 min 110935

After 25 min: recording during 5 min 111436

After 30 min: recording during 5 min 111938

After 35 min: recording during 5 min 112440

After 40 min: recording during 5 min 112942

After 45 min: recording during 5 min 113444

After 50 min: recording during 5 min 113946

After 55 min: recording during 5 min 114448

After 60 min: recording during 5 min 114949

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

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

After 0 min: recording during 5 min 120648

After 5 min: recording during 5 min 121150

After 10 min: recording during 5 min 121652

After 15 min: recording during 5 min 122154

After 20 min: recording during 5 min 122657

After 25 min: recording during 5 min 123159

After 30 min: recording during 5 min 123701

After 35 min: recording during 5 min 124203

After 40 min: recording during 5 min 124705

After 45 min: recording during 5 min 125208

After 50 min: recording during 5 min 125710

After 55 min: recording during 5 min 130213

After 60 min: recording during 5 min 130715

**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