

Anticonvulsant Screening Program

Test 76 Results - In-vitro Hippocampal Slice Culture Neuroprotection Assay (NP)

ASP ID: 299056 U Screen ID: 1

Solvent Code: OTH Solvent Prep:

Test Date: 25-Feb-2009

Reference: 439:52,59

Summary of NP Assay: Kainic acid

● Test Result: No Neuroprotection

Comments: PBS used as solvent

TEST 76: *in vitro* HIPPOCAMPAL SLICE CULTURE NEUROPROTECTION ASSAY

Compound 1 : ADD Number: 299056 Batch U Screen ID: 1 Date Started: 02-25-2009

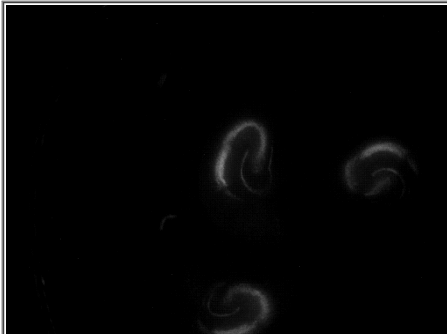
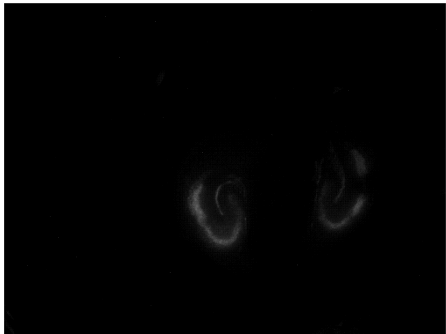
Compound 2 : ADD Number: Batch Screen ID: Date Completed: 03-12-2009

References: 439 : 52, 59

Excitotoxin: KA Insult Duration: 4 Hours Solvent: PBS

Primary Screen Results: No neuroprotection observed

EXPERIMENT IMAGES & WELL DESCRIPTION

A1 KA 20µM	A2 KA 20µM +	A3 KA 20µM +
	299056 10µM	299056 10µM
		
		
B1 KA 20µM	B2 KA 20µM +	B3 KA 20µM +
	299056 100µM	299056 100µM

PRIMARY SCREEN EXPERIMENT DESCRIPTION

The "Primary Screen Experiment" is a qualitative assessment of the ability of a compound to prevent excitotoxic cell death. Organotypic hippocampal slice cultures are treated with N-methyl-D-aspartate (NMDA) or kainic acid (KA) to induce neuronal cell death. Propidium iodide (PI), a membrane-impermeant compound, is included in all wells of the culture plate. Dying cells have compromised cell membranes, thus PI may diffuse into the cell, intercalate with DNA and fluoresce. Thus, the intensity of the PI fluorescence is proportional to the amount of cell death in the individual slices. Hippocampal slice cultures are treated with the excitotoxin alone, or where indicated above, with the excitotoxin and either one or two investigational compounds at the concentrations indicated. If neuroprotection occurs as a consequence of the added compound, slice cultures will have a visibly reduced fluorescent intensity when compared to the slice cultures that have been treated with the excitotoxin alone.

Anticonvulsant Screening Program

Test 76 Results - In-vitro Hippocampal Slice Culture Neuroprotection Assay (NP)

ASP ID: 299056 U Screen ID: 2

Solvent Code: SAL Solvent Prep:

Test Date: 30-Mar-2011

Reference: 458: 237

Summary of NP Assay: NMDA

● Test Result: No Neuroprotection

Comments:

TEST 76: *in vitro* HIPPOCAMPAL SLICE CULTURE NEUROPROTECTION ASSAY

Compound 1 : ADD Number: 299056

Batch: U

Date Started: 30-Mar-2011

Compound 2 : ADD Number:

Batch:

Date Completed: 01-Apr-2011

References: 458: 237

Excitotoxin: NMDA

Insult Duration: 4 Hours

Solvent: PBS

Primary Screen Results: No neuroprotection observed

EXPERIMENT IMAGES & WELL DESCRIPTION

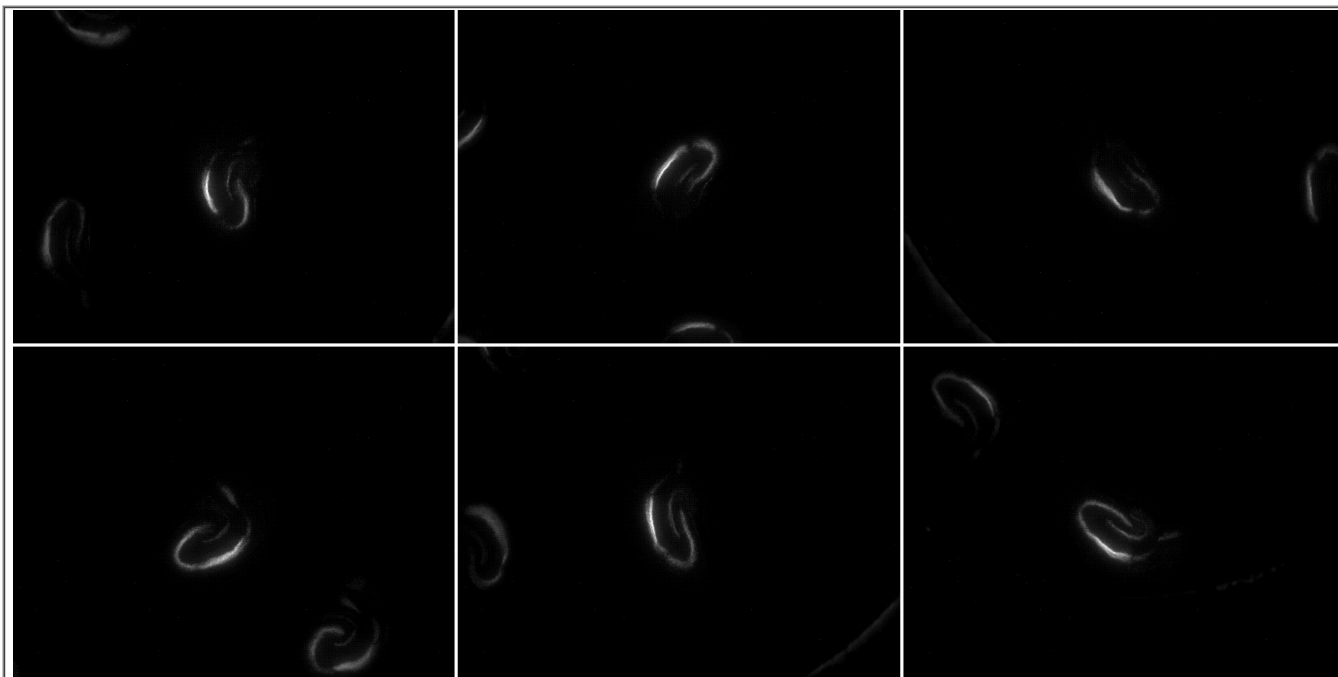
A1 NMDA 10µM

A2 NMDA 10µM +

A3 NMDA 10µM +

299056 10µM

299056 10µM



B1 NMDA 10µM

B2 NMDA 10µM +

B3 NMDA 10µM +

299056 100µM

299056 100µM

PRIMARY SCREEN EXPERIMENT DESCRIPTION

The "Primary Screen Experiment" is a qualitative assessment of the ability of a compound to prevent excitotoxic cell death. Organotypic hippocampal slice cultures are treated with N-methyl-D-aspartate (NMDA) or kainic acid (KA) to induce neuronal cell death. Propidium iodide (PI), a membrane-impermeant compound, is included in all wells of the culture plate. Dying cells have compromised cell membranes, thus PI may diffuse into the cell, intercalate with DNA and fluoresce. Thus, the intensity of the PI fluorescence is proportional to the amount of cell death in the individual slices. Hippocampal slice cultures are treated with the excitotoxin alone, or where indicated above, with the excitotoxin and either one or two investigational compounds at the concentrations indicated. If neuroprotection occurs as a consequence of the added compound, slice cultures will have a visibly reduced fluorescent intensity when compared to the slice cultures that have been treated with the excitotoxin alone.