

NeuroProof® Substance Database

Frontal Cortex

The NeuroProof substance database (FC) contains the electrophysiological activity profiles of 124 compounds covering a wide range of CNS physiology. Data were recorded from murine primary frontal cortex cultures on MEA-neurochips after 4 weeks *in vitro*. The acute measurements followed the NeuroProof standard protocol. To find indications for putative modes of action or to assess the profile of a presumed mode of action of a new compound it is possible to compare its electrophysiological response profile against the database. Here complex data analysis methods such as machine learning algorithms are applied.

Antidepressants, Neuroleptics

Amisulpride
Amitriptyline
Aripiprazole
Chlorpromazine
Clozapine
Fluoxetine
Fluvoxamine
Haloperidol
Lithium chloride
Olanzapine
Quetiapine
Risperidone
Sertraline

Anticonvulsants, Sedatives

Carbamazepine
Clobazam
Clonazepam
Diazepam
Flunitrazepam
Gabapentin
Levetiracetam
Phenobarbital
Phenytoin
Topiramate
Valproate
Zolpidem

Anesthetics, Analgesics

Acetaminophen
Fentanyl
Ketamine
Levomethadone
Morphine
Propofol
Remifentanyl
Sufentanyl
Thiopental
Tramadol

Antidementiva, Nootropics

Donepezil
Memantine
Modafinil

GABA_A Receptor

Bicuculline
CL-218,872
Flumazenil
GABA
L-655,708
L-838,417
Muscimol
Pentylentetrazole
Picrotoxin
SB-205384
SCS
Xli 093

GABA_B Receptor

Baclofen
CGP 7930
GS 39783
SCH 50911
SKF 97541

Acetyl Choline Receptor

Acetylcholine
Atropine methyl bromide
Benzoquinone
Epibatidine
Eserine
Galanthamine
Ipratropium
Nicotine
Oxotremorine

Dopamine Receptor

GBR 12935
Indatraline

Glutamate Receptor

AMPA
LY-341,495
LY-354,740
MK 801
NBQX
NMDA

Serotonin Receptor

DOI
LY-393,558

Opioid Receptors

CTAP
DAMGO
Deltorphin
Dermorphin
DPDPE
Dynorphin A
Enkephalin
Endomorphin I + II
Nalorphine
Naloxone
Naltrindole
nor-Binaltorphimine
U50488

NPY Receptor

Neuropeptide Y
L-152,804

Orexin Receptor

Orexin A
Orexin B

Gap Junctions

Carbenoxolone
1-Octanol
Mefloquine
Sodium Propionate

Pesticides, Insect Repellents

Chlorpyrifos Oxon
Glyphosate
DEET
EBAAP

Others

Agmatine
Apomorphine
As₂O₃, As₂O₅, Disodium
methyl arsenate, Diiodo
methyl arsane
Carbon Black
Cisplatinum
Cortisol
Cyclodextrin
Cyclosporin A
DMSO
Ethanol
Glycine
Hematite
LaCl₃
Neurotensin
Nociceptin
Pregnanolone
Sodium Docecyl Sulfate
Substance P
Tacrolimus
Tetrodotoxin
Titanium Dioxide
Wortmannin

Release: 11/2011

Contact:

Dr. Olaf Schroeder
NeuroProof GmbH

Friedrich-Barnewitz-Str. 4
18119 Rostock, Germany

E-mail: info@neuroproof.com
Homepage: www.neuroproof.com

Phone: +49 381 54345-660
Fax: +49 381 54345-661