

Package ‘faahKO’

April 14, 2020

Version 1.26.0

Date 2019-03-30

Title Saghatelian et al. (2004) FAAH knockout LC/MS data

Author Colin A. Smith <csmith@scripps.edu>

Maintainer Colin A. Smith <csmith@scripps.edu>

Depends xcms

ZipData no

Description Positive ionization mode data in NetCDF file format.
Centroided subset from 200-600 m/z and 2500-4500 seconds. Data originally reported in "Assignment of Endogenous Substrates to Enzymes by Global Metabolite Profiling" *Biochemistry*; 2004; 43(45). Also includes detected peaks in an xcmsSet.

biocViews ExperimentData, MassSpectrometryData

License LGPL

URL <http://dx.doi.org/10.1021/bi0480335>

git_url <https://git.bioconductor.org/packages/faahKO>

git_branch RELEASE_3_10

git_last_commit 84e5bb0

git_last_commit_date 2019-10-29

Date/Publication 2020-04-14

R topics documented:

faahko 2

Index 4

faahko

FAAH knockout LC/MS data xcmsSet

Description

xcmsSet object containing quantitated LC/MS peaks from the spinal cords of 6 wild-type and 6 FAAH knockout mice. The data is a subset of the original data from 200-600 m/z and 2500-4500 seconds. It was collected in positive ionization mode.

Usage

```
data(faahko)
```

Format

The format is:

```
Formal class 'xcmsSet' [package "xcms"] with 8 slots
..@ peaks      : num [1:4776, 1:11] 200 201 205 206 207 ...
..@ groups     : logi[0 , 0 ]
..@ groupidx   : list()
..@ sampnames: chr [1:12] "ko15" "ko16" "ko18" "ko19" ...
..@ sampclass: Factor w/ 2 levels "KO","WT": 1 1 1 1 1 1 2 2 2 2 ...
..@ rt         :List of 2
.. ..$ raw     :List of 12
.. ..$ corrected:List of 12
..@ filepaths  : chr [1:12] ...
..@ profinfo   :List of 2
.. ..$ method: chr "bin"
.. ..$ step    : num 0.1
```

Details

The corresponding raw NetCDF files are located in the `cdf` subdirectory of this package.

Source

<http://dx.doi.org/10.1021/bi0480335>

References

Saghatelian A, Trauger SA, Want EJ, Hawkins EG, Siuzdak G, Cravatt BF. Assignment of endogenous substrates to enzymes by global metabolite profiling. *Biochemistry*. 2004 Nov 16;43(45):14332-9.

See Also

[xcmsSet](#), [xcmsRaw](#)

Examples

```
## The directory with the NetCDF LC/MS files
cdfpath <- file.path(find.package("faahKO"), "cdf")
cdfpath
list.files(cdfpath, recursive = TRUE)

if (require(xcms)) {

## xcmsSet Summary
show(faahko)

## Access raw data file
ko15 <- xcmsRaw(filepaths(faahko)[1], profmethod = "bin", profstep = 0.1)
ko15

}
```

Index

*Topic **datasets**

faahko, [2](#)

faahKO (faahko), [2](#)

faahko, [2](#)

xcmsRaw, [2](#)

xcmsSet, [2](#)