

Title (en)

FLUORINATED DIHYDROTETRABENAZINE ETHER IMAGING AGENTS AND PROBES

Title (de)

FLUORIERTE DIHYDROTETRABENAZIN-ETHER-BILDGEBUNGSMITTEL UND SONDEN

Title (fr)

AGENTS D'IMAGERIE À BASE D'ÉTHÉR DE DIHYDROTÉTRABÉNAZINE FLUORÉ ET SONDÉS

Publication

EP 2214721 A2 20100811 (EN)

Application

EP 08843128 A 20081023

Priority

- US 2008080861 W 20081023
- US 92392607 A 20071025
- US 92380507 A 20071025

Abstract (en)

[origin: WO2009055520A2] The present invention provides novel fluorinated ether compounds related to dihydrotetrabenazine and intermediates useful in the preparation of such fluorinated ether compounds. The fluorinated ether compounds are provided in both racemic and enantiomerically enriched forms and may comprise either or both of fluorine-18 and fluorine 19. The fluorinated ether compounds are shown to possess high affinity for VMAT-2, a biomarker implicated inter alia in human diabetes. The fluorinated ether compounds comprising a fluorine-18 group are useful as PET imaging agents targeting the VMAT-2 biomarker. The non-radiolabeled fluorinated ether compounds are useful as probes for the discovery of PET imaging agents.

IPC 8 full level

A61K 51/04 (2006.01)

CPC (source: EP)

A61K 51/0455 (2013.01); **A61P 3/10** (2017.12); **A61P 25/14** (2017.12); **A61P 25/18** (2017.12); **C07D 471/04** (2013.01)

Citation (search report)

See references of WO 2009055520A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009055520 A2 20090430; **WO 2009055520 A3 20091029**; CN 101998956 A 20110330; CN 101998956 B 20141022; EP 2214721 A2 20100811; JP 2011500829 A 20110106; JP 5663309 B2 20150204

DOCDB simple family (application)

US 2008080861 W 20081023; CN 200880123651 A 20081023; EP 08843128 A 20081023; JP 2010531220 A 20081023