

according to Regulation (EC) No. 1907/2006

Tosyloxyethylflumazenil

Print date: 26.06.2012

Product code: 1721

Page 1 of 5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name

Tosyloxyethylflumazenil

Further trade names

Chemical Name: CA index name: 4H-Imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic acid, 8-fluoro-5,6-dihydro-5-methyl-6-oxo-, 2-[[(4-methylphenyl)sulfonyl]oxy]ethyl ester

	Synonymes:
	TFMZ; 8-Fluoro-5-methyl-6-oxo-5,6-dihydro-4H-2,5,10b-triaza-benzo[e]azulene-3-carboxylic acid 2-
	(toluene-4-sulfonyloxy)-ethyl ester; 2'-Tosyloxyflumazenil
CAS No.:	676437-17-5

Use of the substance/mixture

Precursor for [18F]FFMZ (2'-[18F]Fluorethylflumazenil)

Details of the supplier of the safety data sheet

Company name:	ABX advanced biochemical con	npounds
	Biomedizinische Forschungsrea	agenzien GmbH
Street:	Heinrich-Gläserstraße 10-14	
Place:	D-01454 Radeberg	
Telephone:	+49 3528 4041 60	Telefax: +49 3528 4041 65
e-mail:	info@abx.de	
Contact person:	Dr. Jan Mollitor	Telephone: +49 3528 4041 718
e-mail:	mollitor@abx.de	
Internet:	http://www.abx.de	
Emergency telephone:	+49 3528 4041 60	

Warning

GHS08

SECTION 2: Hazards identification

Classification of the substance or mixture

Indications of danger : Repr. Cat. 3 R-phrases: Possible risk of impaired fertility.

GHS classification

Hazard categories: Reproductive toxicity: Repr. 2 Hazard Statements: Suspected of damaging fertility.

Label elements

Signal word: Pictograms:

according to Regulation (EC) No. 1907/2006

Tosyloxyethylflumazenil Print date: 26.06.2012 Product code: 1721 Page Hazardous components which must be listed on the label Tosyloxyethylflumazenil Precautionary statements Page Hazard statements H361f Suspected of damaging fertility. Precautionary statements P281 Use personal protective equipment as required. SECTION 3: Composition/information on ingredients Substances Sum formula: C22H20FN306S					
Hazardous components which must be listed on the label Tosyloxyethylflumazenil Tosyloxyethylflumazenil Hazard statements H361f Suspected of damaging fertility. Precautionary statements P281 Use personal protective equipment as required. SECTION 3: Composition/information on ingredients	Tosyloxyethylflumazenil				
Tosyloxyethylflumazenil Hazard statements H361f Suspected of damaging fertility. Precautionary statements P281 P281 Use personal protective equipment as required. SECTION 3: Composition/information on ingredients Substances	Print date: 26.06.2012	Product code: 1721	Page 2 of 5		
H361f Suspected of damaging fertility. Precautionary statements P281 Use personal protective equipment as required. SECTION 3: Composition/information on ingredients Substances	-				
Precautionary statements Discretion of the statement of the st	Hazard statements				
P281 Use personal protective equipment as required. SECTION 3: Composition/information on ingredients Substances	H361f	Suspected of damaging fertility.			
SECTION 3: Composition/information on ingredients Substances	Precautionary stater	nents			
Substances	P281	Use personal protective equipment as required.			
	SECTION 3: Composi	tion/information on ingredients			
Sum formula: C22H20FN3O6S	<u>Substances</u>				
	Sum formula:	C22H20FN3O6S			
Molecular weight: 473.47	Molecular weight:	473.47			

Hazardous components

EC No.	Chemical name	(Quantity
CAS No.	Classification		
Index No.	GHS classification		
REACH No.			
	Tosyloxyethylflumazenil	95	- 100 %
676437-17-5	Repr. Cat. 3 R62		
	Repr. 2; H361f		

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures

Description of first aid measures

After inhalation

Provide fresh air.Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water. Consult physician immediately.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO2). Atomized water.

Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use a water spray jet to knock down vapours/gases/mists. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

SECTION 6: Accidental release measures



according to Regulation (EC) No. 1907/2006

Tosyloxyethylflumazenil

Print date: 26.06.2012

Product code: 1721

Page 3 of 5

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eye and clothing. Wear personal protection equipment.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods and material for containment and cleaning up

Collect mechanically. Treat the assimilated material according to the section on waste disposal. Clear contaminated area thoroughly.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

In case of open handling equipment with built-in suction must be used. Do not breathe dust. Do not eat, drink, smoke or sneeze at the workplace.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container dry. Keep container tightly closed. Keep locked up. Store in a place accessible only to authorized persons. Keep container in a well-ventilated place.

Further information on storage conditions

storage temperature: -20 ± 5°C

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure controls

Occupational exposure controls

In case of open handling equipment with built-in suction must be used. Do not breathe dust.

Protective and hygiene measures

Take off immediately all contaminated clothing. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Hand protection

Single-use gloves. NBR (Nitrile rubber).

Eye protection

Tightly sealed safety glasses.

Skin protection

Lab apron. Chemical resistant safety shoes.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	solid
Colour:	cream-coloured
Odour:	odourless

Changes in the physical state

Water solubility: Solubility in other solvents:

dimethylsulphoxide (DMSO). Ethanol.

Test method

insoluble

according to Regulation (EC) No. 1907/2006

Tosyloxyethylflumazenil

Print date: 26.06.2012

Product code: 1721

Page 4 of 5

SECTION 10: Stability and reactivity

Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). fluorhydric acid.

SECTION 11: Toxicological information

Information on toxicological effects

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

No information available.

Carcinogenic/mutagenic/toxic effects for reproduction

May impair fertility.

Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
676437-17-5	Tosyloxyethylflumazenil	1,9

Further information

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations.

Waste disposal number of waste from residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing dangerous substances Classified as hazardous waste.

Waste disposal number of used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing dangerous substances Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Contaminated packaging

Cleaned containers may be recycled.

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Tosyloxyethylflumazenil

Print date: 26.06.2012

Product code: 1721

Page 5 of 5

SECTION 14: Transport information

Other applicable information

Not a hazardous material with respect to these transportation regulations.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Water contaminating class (D):

3 - highly water contaminating

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 362Possible risk of impaired fertility.

Full text of H-Statements referred to under sections 2 and 3 H361f Suspected of damaging fertility.