

**Safety Data Sheet**

according to Regulation (EC) No. 1907/2006

**Boc-FLT-Precursor (GMP)**

Print date: 07.07.2011

Product code: 1241

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

Boc-FLT-Precursor (GMP)

**Further trade names**

(2H)-Pyrimidinecarboxylic acid, 3-[2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-5-O-(triphenylmethyl)

-beta-D-threo-pentofuranosyl)-3,6-dihydro-5-methyl-2,6-dioxo-, 1,1-dimethylethyl ester

Synonyms: 3-N-Boc-1-[5-O-(4,4'-dimethoxytrityl)

-3-O-nitrophenylsulfonyl-2-deoxy-beta-D-lyxofuranosyl]thymidine; Boc-FLT-Precursor

CAS No.: 444717-23-1

**Use of the substance/mixture**

Precursor for [18F]FLT

**Details of the supplier of the safety data sheet**

Company name:	ABX advanced biochemical compounds	
	Biomedizinische Forschungsreagenzien GmbH	
Street:	Heinrich-Gläserstraße 10-14	
Place:	D-01454 Radeberg	
Telephone:	+49 3528 4041 60	Telefax: +49 3528 4041 61
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**SECTION 2: Hazards identification****Classification of the substance or mixture**

Indications of danger : Harmful

R-phrases:

Harmful by inhalation, in contact with skin and if swallowed.

**GHS classification**

This substance is not classified as dangerous according to Regulation (EC) No. 1272/2008.

**Label elements****SECTION 3: Composition/information on ingredients****Substances****Chemical characterization**

(2H)-Pyrimidinecarboxylic acid, 3-[2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-5-O-(triphenylmethyl)

-beta-D-threo-pentofuranosyl)-3,6-dihydro-5-methyl-2,6-dioxo-, 1,1-dimethylethyl ester

Sum formula: C42H43N3O13S

Molecular weight: 829.87

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**Hazardous components**

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine	95 - 100 %
444717-23-1	Xn R20/21/22	

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. In case of breathing difficulties administer oxygen. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

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

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink large quantities of water. Medical treatment necessary.

**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing media**

Suitable extinguishing media: Water spray. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

**Special hazards arising from the substance or mixture**

Can be released in case of fire: Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides.

**Advice for firefighters**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. Provide adequate ventilation. Avoid generation of dust.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

Avoid generation of dust. Remove mechanically, placing in appropriate containers for disposal. Clear contaminated area thoroughly.

**SECTION 7: Handling and storage**

**Precautions for safe handling**

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**Advice on safe handling**

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

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Store in a place accessible only to authorized persons. Restrict access to stockrooms.

**Further information on storage conditions**

storage temperature:

of °C: -25

up to °C: -15

Store under (Gas): argon.

### SECTION 8: Exposure controls/personal protection

**Control parameters****Exposure controls****Occupational exposure controls**

refer to chapter 7. No further action is necessary.

**Protective and hygiene measures**

Do not eat, drink, smoke or sneeze at the workplace. Take off immediately all contaminated clothing.

Wash hands before breaks and at the end of work. Protect skin by using skin protective cream.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

**Hand protection**

Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

**Eye protection**

Eye protection: Tightly sealed safety glasses.

**Skin protection**

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:	light yellow
Odour:	odourless

**Test method****Changes in the physical state**

Melting point:	105 - 120 °C
Water solubility:	insoluble
Solubility in other solvents:	Soluble in: chloroform, Dimethylformamide, dimethylsulphoxide (DMSO).

### SECTION 10: Stability and reactivity

**Incompatible materials**

Water. Oxidizing agents, strong.

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#### SECTION 11: Toxicological information

##### Information on toxicological effects

###### Empirical data on effects on humans

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

###### Further information

Toxicological data are not available.

#### SECTION 12: Ecological information

##### Further information

Do not allow uncontrolled leakage of product into the environment.

#### 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.

#### 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 3

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.