

**Safety Data Sheet**

according to UK REACH Regulation

**Boc-FLT-Precursor**

Revision date: 29.07.2024

Product code: 1240

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Boc-FLT-Precursor

**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

Product group: Zulieferprodukt

CAS No: 444717-23-1

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Precursor for [18F]FLT

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

Company name:	ABX advanced biochemical compounds	
	Biomedizinische Forschungsreagenzien GmbH	
Street:	Heinrich-Gläser-Straße 10-14	
Place:	01454 Radeberg	
Telephone:	+49 3528 4041 60	Telefax: +49 3528 4041 65
E-mail:	info@abx.de	
Contact person:	Dr. Christoph Meyer	Telephone: +49 3528 4041 8732
E-mail:	meyer@abx.de	
Internet:	http://www.abx.de	

**1.4. Emergency telephone number:** +49 3528 4041 60**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Acute Tox. 4; H332

Acute Tox. 4; H312

Acute Tox. 4; H302

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****2.3. Other hazards**

Warning - substance not yet tested completely.

**SECTION 3: Composition/information on ingredients****3.1. 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 g/mol g/mol

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**Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
444717-23-1	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine			95-<=100 %
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H332 H312 H302			

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
444717-23-1		3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine	95-<=100 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg		

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After contact with skin**

After contact with skin, wash immediately with: Water and soap.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Carbon dioxide. Carbon monoxide Nitrogen oxides (NOx). Sulfur oxides.

**SECTION 6: Accidental release measures****SECTION 7: Handling and storage****7.1. Precautions for safe handling****7.2. Conditions for safe storage, including any incompatibilities****Further information on storage conditions**

storage temperature:

of °C: -25

up to °C: -15

Store under (Gas): argon. Nitrogen.

Protect against: Light.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

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**8.2. Exposure controls****SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: solid  
Colour: light yellow  
Odour: odourless  
Melting point/freezing point: 105 - 120 °C  
Solubility in other solvents  
Chloroform, Dimethylformamide, dimethylsulphoxide (DMSO).

**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

Light.

**10.6. Hazardous decomposition products**Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
444717-23-1	3-N-Boc-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine				
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

**SECTION 12: Ecological information****12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Other applicable information**

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Not a hazardous material with respect to transportation regulations.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water hazard class (D): 3 - highly hazardous to water

**SECTION 16: Other information****Abbreviations and acronyms**

Acute Tox: Acute toxicity

**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.