

Safety Data Sheet

according to UK REACH Regulation

Apalutamide precursor

Revision date: 24.03.2022

Product code: 1948

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

1.1. Product identifier

Apalutamide precursor

Further trade names

4-(7-(6-cyano-5-(trifluoromethyl)pyridin-3-yl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-5-yl)
-N-methyl-2-nitrobenzamide

synonym: [18F]Apalutamide precursor

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

Use of the substance/mixture

Precursor for [18F]Apalutamide

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

This substance is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

GB CLP Regulation

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

2.3. Other hazards

Warning - substance not yet tested completely.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

4-(7-(6-cyano-5-(trifluoromethyl)pyridin-3-yl)-8-oxo-6-thioxo-5,7-diazaspiro[3.4]octan-5-yl)
-N-methyl-2-nitrobenzamide

Sum formula: C₂₁H₁₅F₃N₆O₄S

Molecular weight: 504.44

Hazardous components

none (according to UK REACH Regulation)

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

Provide fresh air.

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.

After ingestion

If swallowed, immediately drink: Water.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Co-ordinate fire-fighting measures to the fire surroundings. Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO₂). Atomized water.**5.3. Advice for firefighters**

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

Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

Take up mechanically, placing in appropriate containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on general occupational hygiene**

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

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

Keep container tightly closed.

Further information on storage conditions

Recommended storage temperature:

of °C: 2

up to °C: 8

Protect against: Light.

Store under (Gas): argon. Nitrogen.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses.

Hand protection

Single-use gloves. NBR (Nitrile rubber).

Skin protection

Lab apron. Chemical resistant safety shoes.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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

| | |
|-----------------|----------------|
| Physical state: | solid |
| Colour: | white , yellow |

Changes in the physical state**Solubility in other solvents**DMSO, Dichloromethane , ethyl acetate. , CDCl₃**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

Light.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Fluorines-carbon-hydrogens.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Further information**

Toxicological data are not available.

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.

Further information

Do not allow to enter into surface water or drains.

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

Do not allow to enter into surface water or drains.

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List of Wastes Code - 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 hazardous substances; hazardous waste

List of Wastes Code - used product

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

List of Wastes Code - 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 hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled.

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

Not a hazardous material with respect to these 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