

Fact Sheet: Fludeoxyglucose [¹⁸F]

Fludeoxyglucose [¹⁸F] IBA. 185 MBq/mL solution for injection. -Half-Life: 110 min

Fludeoxyglucose [¹⁸F] is indicated for use with positron emission tomography. [¹⁸F]FDG PET is mostly used in the field of oncology. It provides highly accurate diagnosis and assessment of disease stage and therapeutic response.

We are a leading provider of PET-radiopharmaceuticals and radionuclides for the nuclear medicine community. Our expert team ensures reliable supply of our products and the highest possible product quality. Total annual output is about 35,000 patient doses.

Product Specification

Name

Fludeoxyglucose [¹⁸F] IBA, 185 MBq/mL solution for injection

Pharmaceutical form

Solution for injection

Activity concentration

185 MBq/mL at time and date of calibration

Radiochemical purity

> 95%

pH and composition

4.5 - 8.5 // Fludeoxyglucose [¹⁸F], sodium chloride and water for injections

Storage

Store in the original package. After first use, store in a refrigerator (2-8°C)

Expiry

12 h from the time of production

Isotopes

Fluorine-18

Packaging

15 mL multi-dose colourless glass vial - type I

Availability

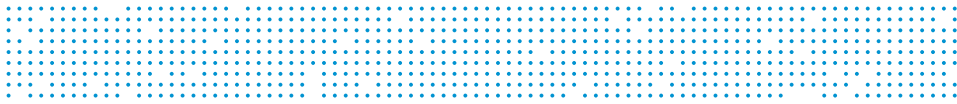
Monday to Friday (Saturday on special request)

Calibration

10:00 a.m., 2:00 p.m. CET (Wednesdays also 5:00 p.m.), same day

Delivery Service

Cyclotron's cooperation partner IBA is the exclusive distributor of our [¹⁸F]FDG and other ¹⁸F-labelled radiopharmaceuticals. IBA is the number one PET-radiopharmaceutical provider worldwide.



Physical Data

| Rad. Type | Energy (keV) | Radiation Intensity (%) |
|-----------|--------------|-------------------------|
| B+ | 249.8 | 96.7 |
| E-AU-K | 0.52 | 3.07 |
| G-AN | 511 | 193 |

Decay Table

Physical half-life: 109.77 min

| Hours\Min | 0 | 10 | 20 | 30 | 40 | 50 |
|-----------|-------|-------|-------|-------|-------|-------|
| 0 | 1.000 | 0.939 | 0.881 | 0.827 | 0.777 | 0.729 |
| 1 | 0.685 | 0.643 | 0.603 | 0.567 | 0.532 | 0.499 |
| 2 | 0.469 | 0.440 | 0.413 | 0.388 | 0.364 | 0.342 |
| 3 | 0.321 | 0.301 | 0.283 | 0.266 | 0.249 | 0.234 |
| 4 | 0.220 | 0.206 | 0.194 | 0.182 | 0.171 | 0.160 |
| 5 | 0.150 | 0.141 | 0.133 | 0.125 | 0.117 | 0.110 |
| 6 | 0.103 | 0.097 | 0.091 | 0.085 | 0.080 | 0.075 |

To obtain a precalibration number, divide by the decay factor.
For a postcalibration number, multiply by the decay factor.

More Information

Boellaard R et. al.. FDG PET and PET/CT: EANM procedure guidelines for tumour PET imaging; version 1.0. Eur J Nucl Med Mol Imaging. 2010 Jan;37(1):181-200. PMID: 19915839.

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