Fludeoxyglucose (^{18}F)

[^{18}F]Fludeoxyglucose ([^{18}F]FDG) is the most commonly used radiopharmaceutical in clinical positron emission tomography (PET) imaging. It is a radioactive glucose analog and accumulates in tissues with high glucose metabolism. [^{18}F]FDG is mostly used in the field of oncology and provides highly accurate diagnosis and assessment of disease stage and therapeutic response.

Product specifications

Fludeoxyglucose (^{18}F)
185 MBq/ml at calibration time and date
Solution for injection
Store in the original package at room temperature
Expiry is 4:00 pm for calibration 10:00 am, 9:00 pm for calibration 2:00 pm
pH 4.5 – 8.5
Radiochemical purity ≥ 95%

✓ AVAILABILITY:
Monday to Friday (Saturday on special request)

✓ CALIBRATION:
10:00 am, 2:00 pm CET same day
(5:00 pm on special request)

✓ PACKAGING:
15 ml multi-dose colorless glass vial – Type I

✓ ORDERING:
Curium Pharma

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 calculate a precalibration activity, divide the activity at calibration time by the decay factor.
For a postcalibration activity, multiply the activity at calibration time by the decay factor.

bv CYCLOTRON VU
radiopharmaceuticals and radionuclides

ADDRESS

van der Boechorststraat 6A
1081 BT Amsterdam
The Netherlands

CONTACT

+31 20 44 49 123
info@cyclotron.nl
www.cyclotron.nl