Fluorocholine (^{18}F)



[^{18}F]Fluorocholine is a positron-emitting radiopharmaceutical that is used for diagnostic purposes with positron emission tomography (PET) imaging. Choline phospholipids are important components of phospholipid cell membranes; hence, fast proliferating cells may express high choline uptake. This property has been utilized in several PET studies with [^{18}F]Fluorocholine for the detection and differential diagnosis of prostate cancer, breast carcinoma, hyperparathyroidism and brain tumors.

Product specifications

Fluorocholine (^{18}F)
225 MBq/ml at calibration time and date
Solution for injection
Store in the original package at room temperature.
Expiry is 9:00 pm on delivery day
pH 4.5 – 8.5
Radiochemical purity ≥ 95%





✓ AVAILABILITY:
Wednesday

✓ CALIBRATION:
12:00 pm, CET same day

✓ 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 halflife: 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

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