

PyL™ (¹⁸F-DCFPyL)



PyL™ (¹⁸F-DCFPyL) is a fluorinated PSMA-targeted positron emission tomography (PET) imaging agent that enables visualization of both bone and soft tissue metastases to determine the presence or absence of recurrent and/or metastatic prostate cancer. A proof-of-concept study showed high levels of PyL™ (¹⁸F-DCFPyL) uptake in sites of putative metastatic disease and primary tumors, suggesting the potential for high sensitivity and specificity in detecting prostate cancer.

Product specifications

PyL™ (¹⁸ F-DCFPyL)
1000 MBq/ml at calibration time and date
Solution for injection
Store in the original package at room temperature
Expiry is 7:00 pm on delivery day
pH 4.5 – 7.5
Radiochemical purity ≥ 95%



- ✓ **AVAILABILITY:**
Tuesday, Thursday and Friday
- ✓ **CALIBRATION:**
9:00 am CET same day
- ✓ **PACKAGING:**
15 ml multi-dose colorless glass vial – Type I
- ✓ **ORDERING:**
BV Cyclotron VU
Based on a doctor's declaration

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.