125 Research Reagents



Research use only. Not for use in diagnostic procedures

[125I]-Human Growth Hormone

Product Number: NEX100

[125I]-HGH

LOT SPECIFIC INFORMATION:

CALCULATED AS OF: 27-Jan-2025

LOT NUMBER: AH22850

SPECIFIC ACTIVITY: 67.4 TBq/mmol

> 1821.4 Ci/mmol 3.1 MBq/µg 85 μCi/μg

CONCENTRATION: 3.1 MBq/ml

83.4 µCi/ml

RADIOCHEMICAL PURITY: >95%

MOLECULAR WEIGHT: ~21,500 **Package Size Information** Package Size

as of 28-Feb-2025	Volume
370 kBq	
10 μCi	0.20 ml
1.85 MBq	
50 μCi	1.00 ml

PACKAGING: [125]-HGH is in a solution containing 0.04M sodium phosphate, 1M glycine, 0.2M NaCl, 0.25% BSA, 500 KIU/ml Trasylol® at pH 7.2. It is shipped on dry ice.

STABILITY AND STORAGE: [125]-HGH should be stored at -20°C or lower. It should be aliquoted in appropriate volumes to avoid repeated freeze-thaw cycles. Under these conditions, the product is stable and usable in radioimmunoassays for at least four weeks after fresh lot date.

SPECIFIC ACTIVITY: 85-130 μCi/μg (3.1-4.8 MBq/μg) on fresh lot date as determined from ¹²⁵l incorporation into human growth hormone. Specific activity decays with time.

RADIOCHEMICAL PURITY: Initially less than 5% unbound iodide as determined by thin layer chromatography.

PREPARATIVE PROCEDURE: Human growth hormone is radioiodinated with no carrier added 125 using a modification of the Hunter and Greenwood method¹ and purified by gel filtration chromatography. This method predominantly labels tyrosine residues.

AVAILABILITY: [1251]-HGH is routinely available from stock and is prepared fresh and packaged for shipment on the fourth Manday of each month. Diseas insuine for larger neckage sizes

RADIATION UNSHIELDED: 280mR/hr/mCi at vial surface.

REFERENCE:

IODINE-125 DECAY CHART HALF LIFE=60 days

Radiations: Gamma 35.5 keV (7%), X-ray K alpha 27 KeV (112%), K beta 31 keV (24%)

DAYS	0	2	4	6	8	10	12	14	16	18
0	1.000	.977	.955	.933	.912	.891	.871	.851	.831	.812
20	.794	.776	.758	.741	.724	.707	.691	.675	.660	.645
40	.630	.616	.602	.588	.574	.561	.548	.536	.524	.512
60	.500	.489	.477	.467	.456	.445	.435	.425	.416	.406
80	.397	.388	.379	.370	.362	.354	.345	.338	.330	.322
100	.315	.308	.301	.294	.287	.281	.274	.268	.262	.256
120	.250	.244	.239	.233	.228	.223	.218	.213	.208	.203

To obtain the correct radioactive concentration or amount for a date before the calibration date: divide by the decay factor corresponding to the number of days before the calibration date. To obtain the correct radioactive concentration or amount for a date after the calibration date: multiply by the decay factor corresponding to the number of days after the calibration date.

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