Research use only. Not for use in diagnostic procedures.

125 Research Reagents

[125I]-Vasoactive Intestinal Polypeptide [125I]-VIP

Product Number: NEX192

LOT SPECIFIC INFORMATION:

CALCULATED AS OF: 23-Sep-2024

LOT NUMBER: CYA0140

SPECIFIC ACTIVITY: 81.4 TBq/mmol

2200 Ci/mmol 23.6 MBq/µg 638 µCi/µg

Package Size	
as of	
1-Nov-2024	
370 kBq	
10 μCi	
1.85 MBq	

50 µCi

Package Size Information

UNBOUND IODIDE: <5% unbound iodine

MOLECULAR WEIGHT: ~3.450

PACKAGING: [125]-VIP is lyophilized from 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 ambient.

STABILITY AND STORAGE: The lyophilized [125 I]-VIP should be stored at 4°C or lower. Following reconstitution with distilled water to a concentration of approximately 50 μ Ci/ml on calibration date, aliquot into silanized or Sigma CoteTM vials and store at -20°C or lower. Under these conditions the product is stable and usable for at least six weeks after fresh lot date.

SPECIFIC ACTIVITY: The initial specific activity of [125|]-VIP is 2200 Ci/mmol (81 TBq/mmol), 640 μCi/μg (24 MBq/μg). Preparative HPLC is used to separate unlabeled vasoactive intestinal peptide from [125|]-VIP. Upon decay, [125|]-VIP undergoes decay catastrophe and the specific activity remains constant with time. However, it is not known what molecular or peptide fragments are generated from the decay event or what functional activity these fragments may have in different assays. References on 125| decay and decay catastrophe of 125| labeled compounds are available.1-5

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

tyrosine residues.

AVAILABILITY: [125]-VIP is routinely available from stock and is prepared fresh and packaged for shipment on the fourth Monday of each month. Please inquire for larger package sizes

HAZARD WARNING: This product contains a chemical (s) known to the state of California to cause cancer. This product also contains a component which is harmful by contact, ingestion or inhalation. It is corrosive to the eyes and skin and is severely irritating to the eyes, skin and respiratory tract. It is toxic and flammable. Target organs are the respiratory system, central nervous system, kidneys and liver.

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

REFERENCES:

- 1. Doyle, V.M., Buhler, F.R., Burgisser, E., Eur. J. Pharm. 99 353 (1984).
- 2. Schmidt, J., J. Biol. Chem. 259 1660 (1984).
- 3. Loring, R.H., Jones, S.W., Matthews-Bellinger, J., Salpeter, M.M., J. Biol. Chem. 257 1418 (1982).
- 4. Berridge, M.S., Jiang, V.W., Welch, M.J., Rad. Res. 82 467 (1980).
- 5. Charlton, D.E., Rad. Res. 107 163 (1986).
- Hunter, W.M. and Greenwood, F.C., Nature 194 495 (1962).

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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Revvity, Inc. 940 Winter Street Waltham, MA 02451 USA

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