¹²⁵I Research Reagents

[¹²⁵I]-MARCROPHAGE INFLAMMATORY PROTEIN-1α (HUMAN, RECOMBINANT) CCL3

Product Number: NEX298

LOT SPECIFIC INFORMATION

CALCULATED AS OF:	12-Feb-2024				
LOT NUMBER:	GG31540				
SPECIFIC ACTIVITY:	81.4 TBq/mmol 2200 Ci/mmol 10.2 MBq/μg 275 μCi/μg				

Package Size Information					
Package Size					
as of					
15-Mar-2024					
185 kBq					
5 µCi					
925 kBq					
25 µCi					

RADIOCHEMICAL PURITY: ≥ 95% by HPLC

MOLECULAR WEIGHT: ~8000

PACKAGING: $[^{125}I]$ -MIP-1 α is lyophilized from a solution containing 0.05M sodium acetate, 5% sucrose, 0.25% BSA, and a stabilizer, at pH 4.0-4.2. It is shipped ambient in a TPX3 vial.

STABILITY AND STORAGE: The lyophilized [¹²⁵I]-MIP-1 α should be stored at 4°C or lower. Following reconstitution with distilled water to a concentration of approximately 25 µCi/ml on calibration date, aliquot and store at -20°C. Under these conditions the product is stable and usable in radioimmunoassays and receptor assays for at least six weeks after fresh lot date.

SPECIAL INFORMATION: [¹²⁵I]-MIP-1α sticks to glass. We recommend using plasticware or Sigma-Cote[™] treated glassware to minimize this problem.

SPECIFIC ACTIVITY: The initial specific activity of [¹²⁵I]-MIP-1 α is 2200 Ci/mmol (81 TBq/mmol), 275 µCi/µg (10 MBq/µg). Preparative HPLC separates unlabeled MIP-1 α from [¹²⁵I]-MIP-1 α . Upon decay, [¹²⁵I]-MIP-1 \Box undergoes decay catastrophe and the specific activity remains constant with time. However, it is not known what molecular fragments are generated from the decay event or what functional activity these fragments may have in different assays. References on ¹²⁵I decay and decay catastrophe of ¹²⁵I labeled compounds .

PREPARATIVE PROCEDURE: MIP-1 α (human, recombinant), obtained from PeproTech, Inc., Rocky Hill NJ, is radioiodinated with no carrier added ¹²⁵I using a lactoperoxidase procedure and is purified by reversed phase HPLC. This method predominantly labels tyrosine residues.

AVAILABILITY: [¹²⁵I]-MIP-1 α is routinely available from stock and is prepared fresh and packaged for shipment on the second Monday of each month. Please inquire for larger package sizes.

APPLICATIONS: [¹²⁵I]-MIP-1α is useful in RIA, receptor studies and crosslinking experiments in the research into immune regulation.⁶⁻¹³ NEX298-R-REV01 **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 and inhalation. It is irritating to the eyes, skin and respiratory tract and is toxic.

REPERINCESSHIELDED: 280mR/hr/mCi at vial surface.

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DAYS		0	2	4	6	8	10	12	14	16	18
	0	1.000	0.977	0.955	0.933	0.912	0.891	0.871	0.851	0.831	0.812
	20	0.794	0.776	0.758	0.741	0.724	0.707	0.691	0.675	0.660	0.645
	40	0.630	0.616	0.602	0.588	0.574	0.561	0.548	0.536	0.524	0.512
	60	0.500	0.489	0.477	0.467	0.456	0.445	0.435	0.425	0.416	0.406
	80	0.397	0.388	0.379	0.370	0.362	0.354	0.345	0.338	0.330	0.322
	100	0.315	0.308	0.301	0.294	0.287	0.281	0.274	0.268	0.262	0.256
	120	0.250	0.244	0.239	0.233	0.228	0.223	0.218	0.213	0.208	0.203

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

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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