

Human RANTES



www.mesoscale.com®

Ordering Information

MSD Customer Service
Phone: 1-240-314-2795
Fax: 1-301-990-2776
Email: CustomerService@
mesoscale.com

Scientific Support

Phone: 1-240-314-2798 Email: ScientificSupport@mesoscale.com

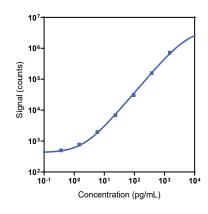
Company Address

MESO SCALE DISCOVERY®
A division of
Meso Scale Diagnostics, LLC.
1601 Research Boulevard
Rockville, MD 20850-3173 USA

	Product Options	Catalog Number	Description
	Multiplex	K151AEM, K251AEM	U-PLEX Immuno-Oncology Group 1 (human)
	Singleplex	K151A2K-1/-2/-4	U-PLEX Human RANTES Assay with SECTOR™ plates
		K151A2K-21	U-PLEX Human RANTES Assay with QuickPlex® APT plates
		K251A2K-2/-4	U-PLEX Human RANTES Assay with 384-well plates
	Antibody Set	B21A2-2/-3	U-PLEX Human RANTES Antibody Set
	Protocol	U-PLEX Product Inserts are available at	www.mesoscale.com.

The U-PLEX® platform was designed to provide ultimate flexibility for the detection of biomarkers in a wide variety of sample types. This datasheet provides the representative performance of the U-PLEX Human RANTES Assay tested on U-PLEX 96-well SECTOR plates run as a multiplex. The data do not represent the product specifications. Under your experimental conditions, the assay may perform differently from the representative data. U-PLEX assays are offered in either singleplex or multiplex; both are available on 96- or 384-well plates. See a U-PLEX product insert for instrument compatibility.

Representative Calibration Curve and Sensitivity



Assay	Median LLOD (pg/mL)	LLOD Range (pg/mL)	
RANTES	0.41	0.26-0.61	

The Calibrator curve was fitted with a 4-parameter logistic model with a $1/Y^2$ weighting. The lower limit of detection (LLOD) is a calculated concentration corresponding to 2.5 standard deviations above the background (zero Calibrator).

Precision

Control	Average Conc. (pg/mL)	Average Intra-run Conc. (%CV)	Inter-run Conc. (%CV)	
High	208	1.9	4.9	
Mid	73	2.1	5.3	
Low	20	2.0	6.2	

Controls were made by spiking Calibrator into assay diluent at 3 levels within the quantitative range of the assay. Average intra-run concentration %CV is the average %CV of the control replicates within an individual run. Inter-run concentration %CV is the variability of controls across multiple runs.

For Research Use Only. Not for use in diagnostic procedures.





MSD® U-PLEX Human RANTES

Tested Samples

Sample Type	Serum (N = 9)	EDTA Plasma (N = 9)	Citrate Plasma (N = 9)	Normal Lysate (N = 5)	Tumor Lysate (N = 5)
Median (pg/mL)	79,300	34,900	5,940	71	544
Range (pg/mL)	18,300-124,000	14,700-130,000	1,860–16,200	52-1,800	20–870
% Detected	100	100	100	100	100

Normal serum and plasma samples were diluted 100-fold prior to testing in the assay. Lysates were tested at a protein concentration of 0.5 mg/mL.

Parallelism

Serum			EDTA Plasma		
Fold Dilution	Average % Recovery	% Recovery Range	Fold Dilution	Average % Recovery	% Recovery Range
50	96	88–111	50	98	88–107
200	96	89–104	200	95	91–102
400	86	79–104	400	93	81–110

Samples were spiked with calibrator and serially diluted. Percent recovery at each dilution was normalized to the dilution-adjusted 100-fold concentration. Samples may benefit from additional dilution with assay diluent to reduce matrix effects.

Spike Recovery

	Ser	um	EDTA Plasma	
Spike Level Average % Recovery % Recovery Range		Average% Recovery	% Recovery Range	
High	102	91–108	104	82–123
Mid	109	89–119	103	83–110
Low	104	89–112	99	85–106

Samples were diluted 100-fold prior to addition of spike. The expected concentration of the analyte in spiked samples was calculated by addition of the Calibrator spike concentration to the unspiked sample concentration.

% Recovery = (measured concentration / expected concentration) x 100

Specificity

The RANTES Antibody Set was tested for nonspecific binding against all of the analytes in the Immuno-Oncology Group 1 and the majority of analytes in Biomarker Group 1. Any cross-reactivity greater than 2.0% is noted below. The U-PLEX Assay Designer shows all of the compatible assays.

% Nonspecificity = (nonspecific signal / specific signal) x 100

Diluent Compatibility

Diluents 58 and 3 are provided when this is ordered in singleplex and multiplex assays.

Assay Components

Calibrator: RANTES is included in Calibrator 29. The human RANTES Calibrator is a full-length recombinant protein expressed in E. coli.

Antibodies: The U-PLEX Human RANTES Assay uses a mouse monoclonal antibody for capture and a mouse monoclonal antibody for detection.

Assay generation: A

Note: This datasheet contains representative assay performance data. In custom multiplex formats, the assay may perform differently from the representative data shown.

Note: MSD recommends that samples be diluted 100-fold prior to analysis in this assay.

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[%] Recovery = (measured concentration / expected concentration) x 100