# Human IL-8

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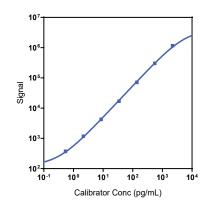
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	Product Options	Catalog Number	Description	
www.mesoscale.com®	Multiplex	K15067M, K25067M K151AEM, K251AEM K151ACM, K251ACM	U-PLEX Biomarker Group 1 (human) U-PLEX Immuno-Oncology Group 1 (human) U-PLEX Metabolic Group 1 (human)	
Ordering Information MSD Customer Service Phone: 1-240-314-2795 Fax: 1-301-990-2776 Email: CustomerService@ mesoscale.com	Singleplex	K151TYK-1/-2/-4	U-PLEX Human IL-8 Assay with SECTOR™ plates	
		K151TYK-21	U-PLEX Human IL-8 Assay with QuickPlex® APT plates	
		K251TYK-2/-4	U-PLEX Human IL-8 Assay with 384-well plates	
	Antibody Set	B21TY-2/-3	U-PLEX Human IL-8 Antibody Set	
	Protocol	U-PLEX Product Inserts are available at http://www.mesoscale.com		
Scientific Support				

The U-PLEX® platform was designed to provide ultimate flexibility for detection of biomarkers in a wide variety of sample types. This datasheet provides the representative performance of the U-PLEX Human IL-8 Assay tested on U-PLEX 96-well SECTOR plates runas 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)	
IL-8	0.15	0.12-0.21	

The Calibrator curve was fitted with a 4-parameter logistic model with a 1/Y<sup>2</sup> 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	873	2.6	5.4
Mid	86	2.9	9.4
Low	9.0	3.1	12.7

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 IL-8

# Tested Samples

Sample Type	Serum (N=10)	Plasma (N=10)	Spiked Plasma (N=5)	Spiked Serum (N=5)
Median (pg/mL)	21	3.3	152	288
Range (pg/mL)	6.4-1,270	1.5-8.0	23-1,830	36-1,880
% Detected	100	100	100	100

Normal serum and plasma samples were diluted 2-fold prior to testing in the assay.

# **Dilution Linearity**

Serum			EDTA Plasma		
Fold Dilution	tion Average % Recovery % Recovery		Fold Dilution	Average % Recovery	% Recovery Range
2	100	97-102	2	106	99-121
4	98	92-101	4	109	101-132
8	96	87-110	8	107	97-140

Normal human serum and EDTA plasma were spiked with Calibrator and tested at different dilutions. Two-fold diluted samples were tested to determine the expected concentration of the analyte. Samples may benefit from additional dilution with assay diluent to reduce matrix effects.

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

### Spike Recovery

	Ser	um	EDTA Plasma	
Spike Level	Average % Recovery	% Recovery Range	Average % Recovery	% Recovery Range
High	119	101-127	120	111-126
Mid	113	99-120	120	116-127
Low	108	92-117	107	80-120

Normal serum and plasma were spiked with Calibrator at 3 levels. Two-fold diluted samples were tested to determine the expected concentration of the analyte. Samples may benefit from additional dilution with assay diluent to reduce matrix effects.

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

#### Specificity

The IL-8 Antibody Set was tested against all of the analytes in Biomarker Group 1, Metabolic Group 1, and Immuno-Oncology Group 1. Any non-specific binding greater than 2.0% is noted below. The U-PLEX Assay Designer shows compatible assays.

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

### **Diluent Compatibility**

Diluents 57 and 3 are provided when this product is ordered in singleplex and when multiplexed with other Biomarker Group 1 assays. Other diluents may be provided when combined with assays from other U-PLEX Groups. See the appropriate Product Insert for details.

#### Assay Components

**Calibrator:** IL-8 is included in Calibrator 1. The IL-8 Calibrator is a full-length recombinant protein expressed in *E. coli*. **Antibodies:** The U-PLEX Human IL-8 Assay uses a mouse monoclonal antibody for capture and a mouse monoclonal antibody for detection. **Assay generation:** B

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

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