Q-Plex™ Human MMP

(6-Plex)



The Q-Plex Human MMP (6-Plex) is a fully quantitative ELISA-based chemiluminescent assay allowing for the concurrent measurement of six matrix metalloproteinases (MMPs).

QUANSYS BIOSCIENCES

Catalog #	Product	Markers
340951HU	Q-Plex Human MMP (6-Plex)	MMP-1 MMP-2 MMP-3 MMP-7 MMP-9 MMP-13

Background

The Q-Plex Human MMP (6-Plex) is a fully quantitative ELISA-based chemiluminescent assay. This kit allows for the concurrent measurement of six matrix metalloproteinases (MMPs). MMPs are an important enzyme in cell biology, involved in cleaving extracellular matrix and cell surface receptor proteins (such as cytokines, chemokines and apoptotic ligands). The specific markers/analytes included in this kit are: MMP-1, MMP-2, MMP-3, MMP-7, MMP-9 and MMP-13.

Each Human MMP (6-Plex) kit contains a preprinted 96-well plate and all reagents required to perform testing. Q-Plex™ plates are built by absorbing distinct capture antibodies in a defined array to the bottom of each well. Our high quality reagents help ensure the accuracy of your results.

Using just 50 µL of sample per well, up to 80 samples can be assayed for six MMPs in approximately 5 hours. Q-Plex™ Arrays provide researchers with an easy-to-use and cost effective means of generating an MMP profile for each sample.

Example Performance and Validation Data

Analyte	Assay Type	Calibrator Range	Upper Limit of Quantification (ULOQ)	Lower Limit of Quantification (LLOQ)	Limit of Detection	Precision* (Inter-assay)	Precision* (Intra-assay)	Average* Linearity
MMP-1	Sandwich	12,000 – 49.38 (pg/mL)	8,400 (pg/mL)	64.2 (pg/mL)	24.7 (pg/mL)	12%	6%	87%
MMP-2	Sandwich	80,000 - 329 (pg/mL)	56,000 (pg/mL)	428 (pg/mL)	165 (pg/mL)	11%	9%	105%
MMP-3	Sandwich	4,500 - 18.52 (pg/mL)	3,150 (pg/mL)	24.1 (pg/mL)	9.26 (pg/mL)	9%	6%	97%
MMP-7	Sandwich	1,800 - 7.41 (pg/mL)	1,260 (pg/mL)	9.6 (pg/mL)	3.7 (pg/mL)	14%	11%	98%
MMP-9	Sandwich	44,000 - 181 (pg/mL)	30,800 (pg/mL)	235.4 (pg/mL)	90.53 (pg/mL)	7%	7%	136%
MMP-13	Sandwich	35,000 - 144 (pg/mL)	24,500 (pg/mL)	187.2 (pg/mL)	72.02 (pg/mL)	13%	7%	100%

** Actual values may vary from kit to kit. Please see the In-Kit Certificate of Analysis included in your kit for specific values.*

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