

Certification of analysis

Product Name: Human Protein Zero, Myelin (MPZ) ELISA Kit

Cat. No. OKDD00403-24

Lot No. KF0032

Introduction

Item	Standard	Test Result																														
Description	The kit is a sandwich enzyme immunoassay technique for the in vitro quantitative measurement of MPZ in human tissue homogenates, cell lysates or other biological fluids.	Conform																														
Identification	Colorimetric	Positive																														
Composition	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Pre-coated, ready to use 24-well strip plate</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 20%;"></td> </tr> <tr> <td>Standard (freeze dried)</td> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td>Assay Diluent</td> <td style="text-align: center;">1 × 11.3ml</td> <td></td> </tr> <tr> <td>Biotinylated MPZ Detector Antibody</td> <td style="text-align: center;">1 × 30µl</td> <td></td> </tr> <tr> <td>Avidin-HRP Conjugate</td> <td style="text-align: center;">1 × 30µl</td> <td></td> </tr> <tr> <td>TMB Substrate</td> <td style="text-align: center;">1 × 2.3ml</td> <td></td> </tr> <tr> <td>Stop Solution</td> <td style="text-align: center;">1 × 1.5ml</td> <td></td> </tr> <tr> <td>Wash Buffer(30 x concentrate)</td> <td style="text-align: center;">1 × 5ml</td> <td></td> </tr> <tr> <td>Plate sealer for 96 wells</td> <td style="text-align: center;">2</td> <td></td> </tr> <tr> <td>Instruction manual</td> <td style="text-align: center;">1</td> <td></td> </tr> </table>	Pre-coated, ready to use 24-well strip plate	1		Standard (freeze dried)	1		Assay Diluent	1 × 11.3ml		Biotinylated MPZ Detector Antibody	1 × 30µl		Avidin-HRP Conjugate	1 × 30µl		TMB Substrate	1 × 2.3ml		Stop Solution	1 × 1.5ml		Wash Buffer(30 x concentrate)	1 × 5ml		Plate sealer for 96 wells	2		Instruction manual	1		Conform
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Assay Range	0.156-10ng/mL	Conform																														

Sensitivity

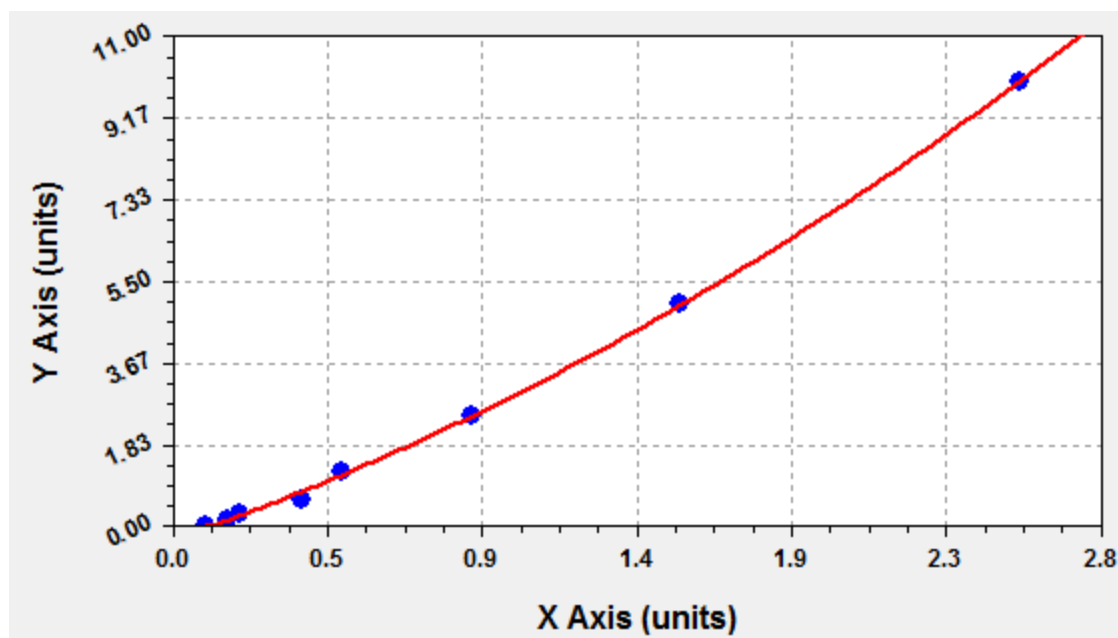
The minimum detectable dose of human MPZ is typically less than 0.052ng/mL.

The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.

Standard curve

The standard curve is provided for demonstrated only. The client should perform the standard test in each independent experiment.

ng/mL	Standard		Average	Corrected
0	0.102	0.117	0.1095	---
0.156	0.174	0.181	0.1775	0.068
0.312	0.211	0.215	0.213	0.1035
0.625	0.393	0.401	0.397	0.2875
1.25	0.517	0.522	0.5195	0.41
2.5	0.911	0.915	0.913	0.8035
5	1.536	1.541	1.5385	1.429
10	2.568	2.554	2.561	2.4515



Precision

Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level human MPZ were tested 20 times on one plate, respectively.

Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level human MPZ were tested on 3 different plates, 8 replicates in each plate.

$$CV(\%) = SD/\text{mean} \times 100$$

Sample	Intra-assay Precision			Inter-assay Precision		
	1	2	3	1	2	3
n	20	20	20	8	8	8
Mean (ng/mL)	2.73	4.52	9.27	1.23	4.57	9.66
SD	0.20	0.33	0.63	0.07	0.33	0.72
CV (%)	7.31	7.30	6.82	6.03	7.14	7.46