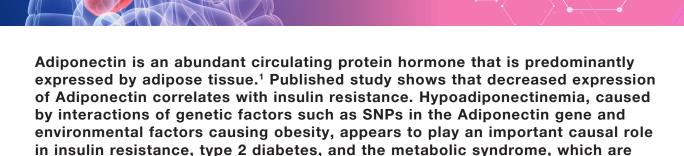
# **ADIPONECTIN ASSAY**

Diabetic Marker



Diazyme's Adiponectin Assay is a cost effective latex enhanced immunoturbidimetric methodology utilized for the determination of total Adiponectin concentration in serum.

# DIAZYME ADIPONECTIN ASSAY ADVANTAGES

- Available for chemistry analyzers
- · Latex enhanced immunoturbidimetric method
- Measuring Range: Up to 40 μg/mL
- Improves laboratory efficiency and workflow
- Fast test results (10 minutes) for facilitating faster patient diagnosis and treatment plan implementation compared to traditional ELISA based testing
- Liquid stable format requires no reagent preparation

### REGULATORY STATUS

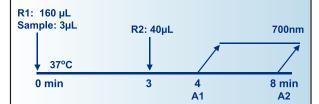
linked to obesity.2

USA: For Research Use Only

### **ASSAY SPECIFICATIONS**

Method	Latex Enhanced Immunoturbidimetric		
Sample Type &	• Serum		
Volume	Sample Volume 3 µL		
	Passing and Bablok Regression:		
Method Comparison	N = 40 y-Intercept = -0.4449 Slope = 0.9902 R = 0.9593		
	Sample Range: 3.01 - 39.24 µg/mL		
Linearity	1.12 - 40 μg/mL		
LOB LOD	0.02 μg/mL		
LOQ	0.27 μg/mL 1.12 μg/mL		
Calibration Levels	6-Point Calibration A saline solution is required to generate a 6-point calibration		

# Adiponectin Assay Procedure\*



# \*Analyzer Dependent

For a list of validated parameters please contact Diazyme technical support at 858-455-4768 or email support@diazyme.com

- 1. Wang, Y. et al., Adiponectin Inhibits Cell ProliferationbyInteracting with Several Growth Factors in anOligomerization Dependent Manner. Journal of BiologicalChemistry, 2005, 280(18): 18341-18347.
- 2. Takashi K. et al. Adiponectin and adiponectin receptorsin insulin resistance, diabetes, and the metabolicsyndrome J Clin Invest. 2006 Jul 3; 116(7): 1784–1792.

## **ASSAY PRECISION**

The precision of the Diazyme Adiponectin Assay was evaluated according to CLSI EP5-A2 guideline. In the study, 2 levels of serum based controls containing 4.67 and 13.21 µg/mL of Adiponectin, and three serum samples containing approximately 5.81, 22.71, and 38.88 µg/mL of Adiponectin, respectively, were tested with 2 runs per day in duplicates over 5 working days. Results were calculated using the EP Evaluator software precision statistic template and summarized in the following table:

Sample	Mean (µg/mL)	Within-Run %CV	Between-Run %CV	Between-Day %CV	Total %CV
Control 1	4.67	2.8	4.9	1.5	5.8
Control 2	13.21	4.3	3.8	6.3	8.5
Sample 1	5.81	2.6	1.2	2.6	3.9
Sample 2	22.71	1.9	4.5	2.8	5.6
Sample 3	38.88	2.4	0.0	2.7	3.6

### **ASSAY INTERFERENCE**

To determine the level of interference from the substances present in serum, the Diazyme Adiponectin Assay was used to test two Adiponectin controls, which contain "low" and "high" adiponectin concentrations spiked with various concentrations of substances following Clinical and Laboratory Standards Institute EP7-A2. The following substances do not interfere with this assay at the levels tested (less than 10% bias):

Interferent	Concentration	
Absorbic Acid	176 mg/dL	
Bilirubin	40 mg/dL	
Bilirubin Conjugated	40 mg/dL	
Hemoglobin	1000 mg/dL	
Triglycerides	1000 mg/dL	
Rheumatoid Factor	200 IU/ml	

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