## **HPLC Application**

ID No.: 20881



## TMP and Thiamine Standard 5 nmol/L by Impact PPT on Kinetex 5u C18 100x4.6mm

Kinetex® 5µm C18 100 Å, LC Column 100 x 4.6 mm, Ea

100 x 4.6 mm ID **Dimensions:** Order No: 00D-4601-E0 **Elution Type:** Gradient

Eluent A: 25mM Na2HPO4, 10% Methanol, pH 7.0 25mM Na2HPO4, 70% Methanol, pH 7.0 **Eluent B:** 

Liuciic Di	231111 Na2111 0 1, 70 70 1 lection of, pri 7.0						
Gradient	Step No.	Time (min)	Pct A	Pct B			
Profile:	1	0	97	3			
	2	0.25	75	25			
	3	0.75	75	25			
	4	3	65	35			
	5	4	40	60			
	6	4.5	97	3			
	7	5	97	3			



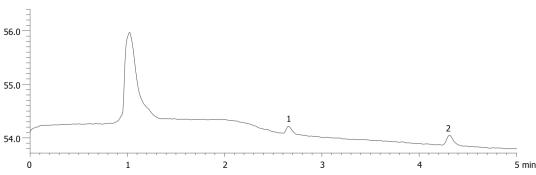
Products used in this application:



Flow Rate: 1 mL/min Col. Temp.: 25 °C

Circular Dichroism @ 0.000000000 (ambient) **Detection:** 

Using Impact Protein Precipitation Plate (Cat Log #CE0-7565) for sample preparation **Analyst Note:** 



## **ANALYTES:**

Thiamine monophosphate

Retention Time: 2.658 min

2 Thiamine

Retention Time: 4.312 min

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# **Sample Preparation Details**

for HPLC Application ID No.: 20881



### TMP and Thiamine Standard 5 nmol/L by Impact PPT on Kinetex 5u C18 100x4.6mm

#### **PRODUCT DESCRIPTION:**

Impact™ Protein Precipitation, 2mL Square Well Filter Plate, 2/Pk

Order No.: CE0-7565

#### **SOLID PHASE EXTRACTION (SPE) PRODCEDURE:**

**Note:** The solvent volumes shown below are for a Proprietary bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:	
Load:	
Wash:	
Dry:	
Elute:	
Final Prep and Analysis:	
Add 400µL of methanol to a well of a Protein Precipitation Plate; Add 100µL plasma t Mix 3 times with pipette tip (or vortex the whole plate briefly); Wait for 5 minutes; F	
Inject: 20 μL on HPLC Circular Dichroism @ 0.000000000 (ambient)	

ANALYTES:	Spiked Conc.	Log P	рКа	% Rec	%RSC
	(ng/mL)				(n=0)
1 Thiamine monophosphate	5				
2 Thiamine	5				

This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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