

“MagQu” Phosphorylated Tau Protein [pT217] Control Solution



CL-PT2-000TR Concentration L

CL-PT2-010TR Concentration H



For Research Use Only

Intended Use

“MagQu” Phosphorylated Tau Protein [pT217] Control Solution is used as a standard control for “MagQu” Phosphorylated Tau Protein [pT217] IMR Reagent (MF-PT2-0060R).

Special instrumentation requirement

Magnetic Immunoassay Analyzer (XacPro-S)

Product Description

Normal phosphorylated Tau protein is essential to neuronal homeostasis. However, hyper-phosphorylation of Tau protein induces the protein to detach from the microtubules, thereby destabilizing microtubules and affecting its axonal transport. Previous reports showed that hyper-phosphorylated Tau protein aggregates to form insoluble neurofibrillary tangles that interfere with fundamental cell functions. It has been classically associated with many neurodegenerative diseases including Alzheimer disease, Parkinson's disease, Frontotemporal dementia and Lewy body disorders. “MagQu” Phosphorylated Tau Protein [pT217] IMR Reagent is an in vitro diagnostic device intended for the quantitative determination of phosphorylated Tau protein [pT217] levels to help diagnosis neurodegenerative disease from human fluid specimen, such as plasma, by using the Magnetic Immunoassay Analyzer (XacPro-S).

Principles of Test

“MagQu” Phosphorylated Tau Protein [pT217] Control Solution is used as a standard control for “MagQu” Phosphorylated Tau Protein [pT217] IMR Reagent (MF-PT2-0060R). The antibody conjugated on the surface of Fe₃O₄ magnetic particles (~ 50 nm) could bind with phosphorylated Tau Protein [pT217] and form clusters. With the increase of cluster, the signal of ac susceptibility (χ_{ac}) will decrease in the applied ac magnetic field. That is the principle of Immuno Magnetic Reduction (IMR). By measuring the reduction of χ_{ac} , we can quantify the Tau protein in the sample easily and accurately.¹

Storage & Stability

Storage the product at -15 to -30 °C. (5.0 to -22.0 °F).

Please refer to the detail expiration date on the product label

CAUTION: Do not use the product beyond the expiration date.

CAUTION: Avoid repeated freezing and thawing cycles.

Statement of Warnings



BIOHAZARD

All products or objects that come in contact with human or animal body fluids should be handled carefully, before and after cleaning, as if capable of transmitting infectious diseases. Wear

facial protection, gloves, and protective clothing.

Safety Data Sheet is available at www.magqu.com.

1. For research use only.
2. Do not use the product if there is any precipitation.
3. Aliquot the product for first use. Avoid repeated freezing and thawing cycles.
4. Do not use the product beyond the expiration date.
5. Keep out of reach of children.
6. The disposal of the waste generated should follow the local rules.
7. If there is any problem about the product, please contact the MagQu Co. Ltd.

Use Direction

1. For use with the “MagQu” Phosphorylated Tau Protein [pT217] IMR Reagent (MF-PT2-0060R) at room temperature (15 to 30 °C)
2. Use the product for each measurement.

Procedure

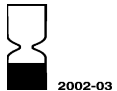
Materials required but not supplied

- Magnetic Immunoassay Analyzer (XacPro-S)
- “MagQu” Phosphorylated Tau Protein [pT217] IMR Reagent (MF-PT2-0060R)
- Sample testing tubes
- Transfer pipettes

Thaw out the product on ice and then take it to room temperature (15 to 30 °C) before use. Mix the product thoroughly before use and then restore it to -15 to -30 °C as soon as possible.

1. Aliquot the product when first use. Avoid repeated freezing and thawing cycles.
2. Add 40 µL of “MagQu” Phosphorylated Tau Protein [pT217] Control Solution into sample testing tube.
3. Add 80 µL of “MagQu” Phosphorylated Tau Protein [pT217] IMR Reagent (MF-PT2-0060R) into the same sample testing tube. Vortex for about 5±2 seconds to mix thoroughly.
4. Insert the sample testing tube into the measuring slot of Magnetic Immunoassay Analyzer (XacPro-S).
5. Process the measurement according to the operation & maintenance manual of Magnetic Immunoassay Analyzer (XacPro-S).
6. The final concentration value is acceptable while it falls between ±20 % of the concentration value on COA.

Glossary/symbol definition :

SYMBOL	DESCRIPTION
	Caution, refer to accompanying documents
	Batch code
	Catalogue number,
	Content
	Use by Expressed as: CCYY-MM-DD
	Biological risk
	Consult instructions for use.
	Temperature limitation
	For research use only
	Manufacturer
	Country and date of manufacture
	Do not use if package damaged



Manufacturer

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