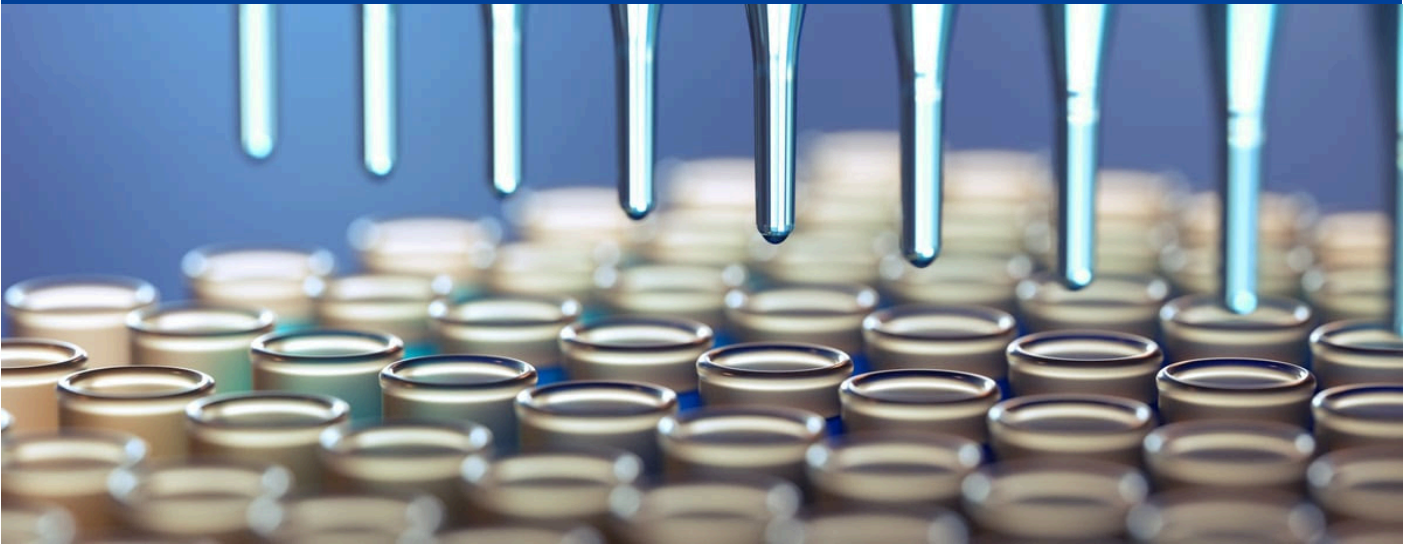


Scientific Reference :

CHIT1 Quantification in multiple sclerosis Biomarker Study Using MBL's ELISA Kit - CY-8074: CircuLex Human Chitotriosidase ELISA Kit -



Featured Product

- [CY-8074: CircuLex Human Chitotriosidase ELISA Kit](#)

To support research involving CHIT1 (Chitotriosidase), MBL offers the [CircuLex Human Chitotriosidase ELISA Kit \(Product Code: CY-8074\)](#) - a high-sensitivity tool for quantifying CHIT1 in human serum.

Scientific Reference

Predicting long-term outcomes in multiple sclerosis (MS) remains a major challenge. A recent study¹⁾ published in *Nature Communications* suggests that CHIT1 levels in cerebrospinal fluid (CSF) may serve as an indicator of faster disability progression in MS patients.

In a longitudinal cohort of 192 MS patients, CHIT1 levels measured at the time of diagnostic lumbar puncture were found to correlate with disease progression. The study also revealed that CHIT1 is predominantly expressed by activated microglia in active MS lesions and is associated with lipid metabolism pathways. Furthermore, CHIT1 expression was shown to accompany the transition of microglia from a homeostatic state to a more activated, MS-associated cell state - highlighting its relevance in early disease processes.

Reference

- Beliën, J., *et al.*, *Nat. Commun.* (2024) [PMID: [38866782](#)]

Product Overview

- [CY-8074: CircuLex Human Chitotriosidase ELISA Kit](#)

Target: Human Chitotriosidase (CHIT1)

Sample Type: Serum

* Individual users should determine appropriate conditions when using other types of samples.

Detection Range: 56.25–3,600 pg/mL

Sensitivity: 48.3 pg/mL

[>>View Product Details](#)

With growing interest in CHIT1 as a biomarker for MS, this ELISA kit could be a useful tool for researchers exploring disease mechanisms and progression markers. We encourage you to consider it for your next study.

Related Products

- [CY-1249 : CycLex® Chitotriosidase Fluorometric Assay Kit](#)

This kit quantitatively measures chitotriosidase activity in serum, plasma, culture supernatants of activated macrophages, and other biological samples, and supports studies on drug effects and enzyme modulators.

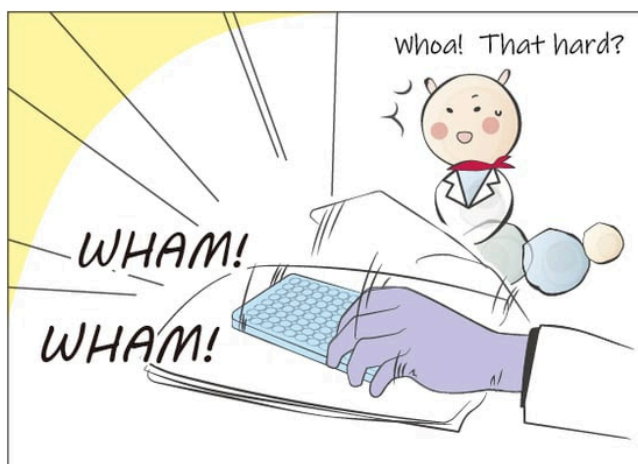
- [CY-8087 : CircuLex Human YKL-39 ELISA Kit](#)

This kit is used for the quantitative measurement of human YKL-39 in cell lysate, cell culture supernatant, and serum.

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