

Code No. 134-19501 (1 mL)

Microglia Remover

ミクログリアリムーバー

【Introduction】

Microglia are immunocompetent cells of the central nervous system that phagocytose abnormal cells and produce and release humoral factors such as cytokines, contributing to the maintenance of homeostasis. In recent years, it has been reported that microglial activation causes exacerbation of various brain diseases including Alzheimer's disease and Parkinson's disease. Therefore, to understand the basic functions of microglia, research using various methods such as intracerebral removal and transplantation of microglia is being actively conducted.

Microglia Remover is anionic liposomes suspension containing clodronic acid. When this product is phagocytosed by microglia as foreign substances, clodronic acid is released within the cells, causing cell death. By encapsulating clodronic acid in liposomes, it is taken up into microglia more efficiently than clodronic acid alone. Therefore, Microglia Remover is a useful tool in microglia research.

【Descriptions】

Lipid composition	Dipalmitoylphosphatidylcholine, dipalmitoylphosphatidylserine, and cholesterol
Average particle size	100 nm
Formulation	Phosphate Buffered Saline sterilized with 0.22 μ m filter

【Storage】

Store in the dark at 2-10°C.

Avoid freezing

【Package】

1 mL

【Usage example】

< Intracerebral infusion >

1~2 μ L Microglia Remover or Microglia Remover (for Control) are infused into the cerebral parenchyma. Assess the depletion of microglia in 1~3 days post-infusion.

【Precautions for use】

- Avoid freezing
- If it is not used for a long period of time, slowly invert the vial several times until the suspension appears homogeneous by visual inspection.
- When using Microglia Remover, take a sample from this product with sterilized instrument.
- Close the cap of the tube to prevent an influence on liposomes caused by oxidation.

— 1/2 —

FUJIFILM Wako Pure Chemical Corporation

1-2, Doshomachi 3-Chome, Chuo-Ku, Osaka 540-8605, Japan
Telephone : + 81-6-6203-3741
Facsimile : + 81-6-6201-5964
<http://fwk.fujifilm.co.jp>

FUJIFILM Wako Chemicals U.S.A. Corporation

1600 Bellwood Road
Richmond, VA 23237
U.S.A.
Telephone : + 1-804-271-7677
Facsimile : + 1-804-271-7791
<http://www.wakousa.com>

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstrasse 12
D-41468 Neuss
Germany
Telephone : + 49-2131-3111-0
Facsimile : + 49-2131-311100
<http://www.wako-chemicals.de>

— 2/2 —

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