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(54) Title: MODIFIED MACROPHAGES, COMPOSITIONS AND USES THEREOF

(57) Abstract: The present invention provides modified monocytes, modified macrophages, pharmaceutical compositions comprising the modified monocytes or modified macrophages described herein and at least one pharmaceutically acceptable carrier or excipient. Uses of the modified monocytes or the modified macrophages for the treatment of musculoskeletal diseases and inducing cartilage formation are provided. Also disclosed herein are in vitro culture methods for generating the modified macrophages.

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