

ABSTRACT

5 The purpose of the present invention is to identify
a migratory factor that guides pluripotent stem cells
(Muse cells) useful in new medical applications to
damage, and to provide a pharmaceutical composition that
includes the migratory factor for promoting tissue
regeneration in regenerative medicine that makes use of
Muse cells. In the present invention, a receptor that is
10 specifically expressed in Muse cells rather than non-Muse
cells was identified, and it was confirmed that a ligand
for this receptor can function as a migratory factor. In
the present invention, sphingosine-1-phosphate (S1P) was
identified as a migratory factor, and thus, the present
15 invention pertains to a pharmaceutical composition for
guiding pluripotent stem cells to damage, the composition
including S1P as an active ingredient.