

ABSTRACT

The peptide of the present disclosure has a binding capacity to PAC1R, promotes activation of a PAC1R signaling pathway, and induces neuroblast differentiation, thereby having a tear
5 secretion promoting activity. In addition, the peptide of the present disclosure promotes expression and secretion of mucin which is a tear component in conjunctival goblet cells, and has an activity of inhibiting inflammatory response and cell damage in human corneal epithelial cells. The peptide of the present
10 disclosure may be used as an active material for treatment, prevention, and improvement of dry eye disease.