

ABSTRACT

A wound is defined as damage or disruption to the normal anatomical structure. When anatomical structure damage due to an injury that structure repair itself. That process is called 'Wound Healing'. The wound usually takes several days to recovery without any wound healing medicines. Some chemicals can enhance the wound healing what is called wound healing active compound. The research for more effective and lower cost therapeutic approaches for wound healing remains a challenge for modern medicine.

Wound healing potential can be determined by using Scratch Wound Assay (SWA). 2-hydroxy-4-methoxybenzaldehyde is a compound that showed wound healing activity on SWA.

The present study was designed to identify structure activity relationship of 2-hydroxy-4-methoxy benzaldehyde by preparing some derivatives of it. The synthesized compound can be subjected to Scratch Wound Healing Assay (SWA) and evaluate their cell migration potential to understand the structure activity relationship of 2-hydroxy-4-methoxybenzaldehyde.