Recently, ACTIValoe was shown to significantly increase hydration of the skin within one hour after application. Further, after two weeks of daily applications the formulations containing ACTIValoe showed no effect on transepidermal water loss, meaning that the ingredient does not interfere with skin barrier function, which is critical for protection from the environment.

- ACTIValoe (0.5% wt/wt) significantly increased hydration within one hour after application
- ACTIValoe (0.25% wt/wt) significantly increased hydration within two hours after application
- ACTIValoe (0.10% wt/wt) significantly increased hydration within one week after application
- ACTIValoe (all doses) showed no significant effect on transepidermal water loss

A 2 week Human Clinical study demonstrated that formulations with ACTIValoe caused an immediate hydration effect which was maintained after 1 and 2 weeks with daily applications. Further, the presence of ACTIValoe in the formulations did not alter the skin barrier function, as TEWL values were not changed when compared with the vehicle.

It was concluded from these data that formulations containing different concentrations of ACTIValoe showed efficacy in improving skin moisture, when evaluated in short- and long-term application studies. Thus, ACTIValoe is a natural, effective ingredient for improving skin hydration which can be used in moisturizing cosmetic formulations.