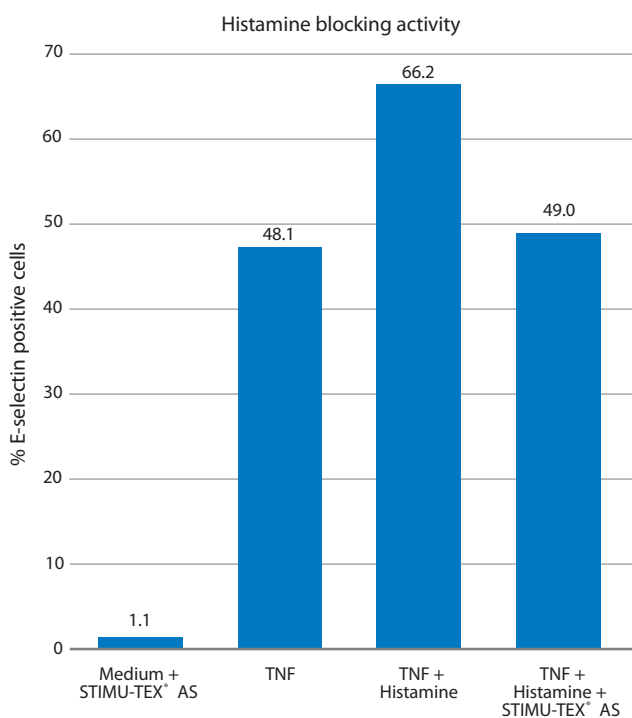


Efficacy in vitro

Histamine effect blocking assay

Histamine is a marker for allergic reactions. Histamine-blocking products inhibit the symptoms of allergy such as itching, swelling, and red skin.

An in vitro assay with human endothelial cells was developed to quantify histamine effects: Histamine combined with TNF (Tissue Necrosis Factor) enhances the induction of E-selectin on endothelial cells. E-selectin induction is the starting point of an inflammatory reaction.



Result:

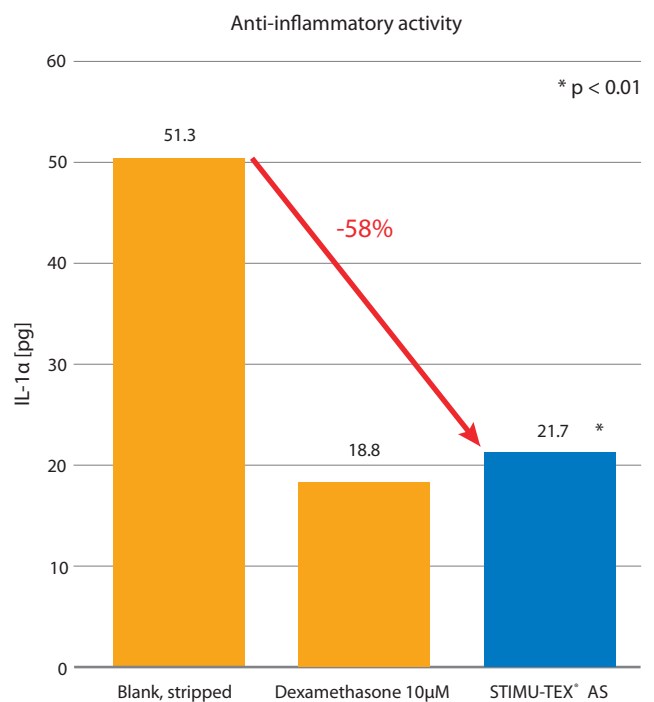
STIMU-TEX[®] AS nearly completely blocks E-selectin expression on endothelial cells, a downstream target of histamine.

Efficacy ex vivo

Anti-inflammatory assay

Determination of the inflammation marker interleukin-1 α , released in the supernatants of stripped human skin disks.

A human skin fragment was taken after abdominal plastic surgery and stripped 10 times. STIMU-TEX AS was tested on the skin surface at a concentration of 1 mg/cm². Dexamethasone is a glucocorticoid, used as positive control.



Result:

STIMU-TEX[®] AS significantly decreases the expression of IL-1 α by 58%, a marker for inflammatory reactions.