



## Technical Data Sheet

## Siped® AB-30

### Key Feature

Siped® AB-30, a solution of Acetyl Hexapeptide-18, increases local volume and improve facial appearance by promoting PGC-1 $\alpha$  expression and lipid accumulation in the adipose tissue.

**INCI** Butylene Glycol, Water(Aqua),Acetyl Hexapeptide-18

### Properties and benefits

Siped® AB-30 stimulates Peroxisome proliferator-activated receptor Gamma Coactivator 1 $\alpha$  (PGC-1 $\alpha$ ) expression and enhance adipogenesis rate. It leads to a higher lipid accumulation and volume growth in the desired areas like breast and cheeks.

In vitro efficacy, after 10-day-treatment, Siped® AB-30 promoted PGC-1 $\alpha$  expression by more than 61% and lipid content was higher in cells.

In vivo testing, a group of 15 female volunteers(aged between 50 and 60) applied a cream containing 2% Siped® AB-30 solution on the cheeks twice a day for 14 days. Cheek volume was increased by 12%.

A group of 25 women aged 25 to 40 with a bra size between 80 and 90 applied a cream containing 2% Siped® AB-30 on a breast against another, twice a day for 56 days. Siped® AB-30 improves breast volume by 30% compared to another.

### Applications

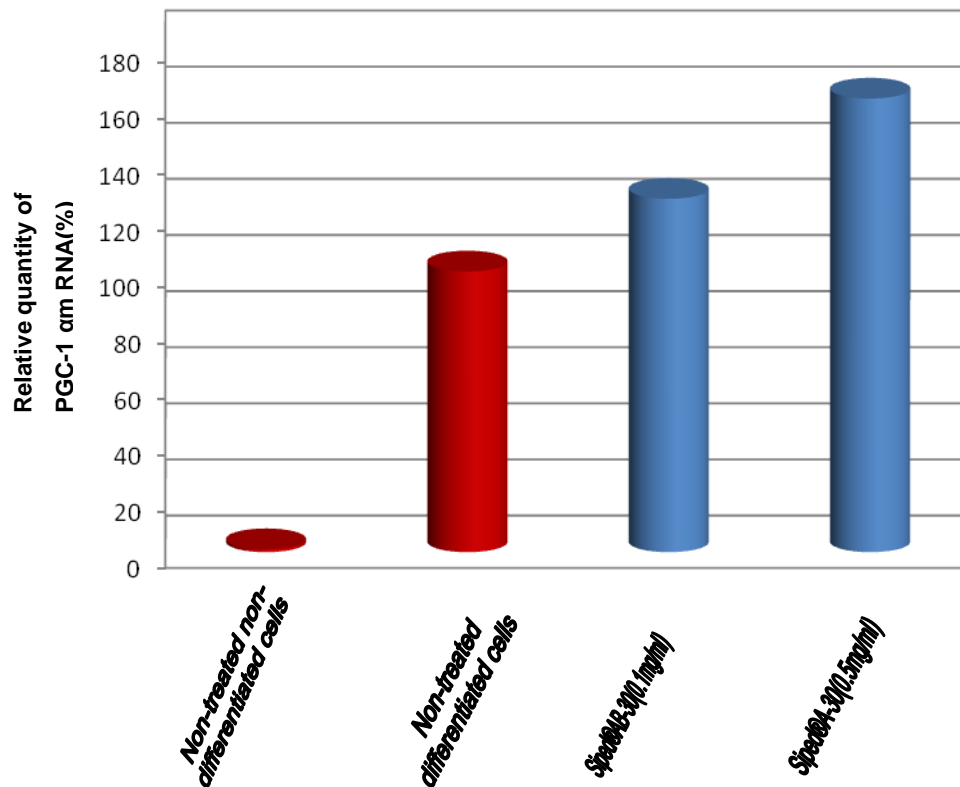
Siped® AB-30 can be incorporated in Facial modification or breast firming formulations and any product where a replenishing effect is desired.

### Specifications

Appearance	Transparent solution
HPLC+MS	Conform
Content of acetyl hexapeptide-18	$\geq 500$ ppm
Total Plate Count (cfu/gm)	$\leq 100$

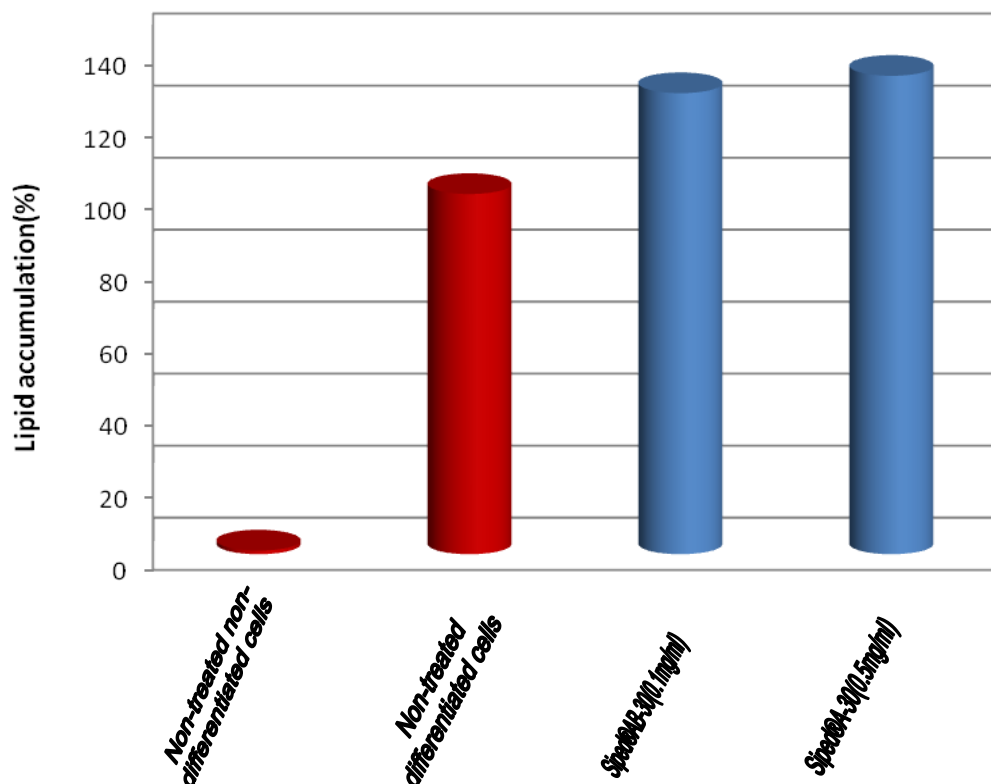
## In Vitro efficacy

1 Effect on PGC-1 $\alpha$  : Human preadipocytes were differentiated with different concentrations of Siped® AB-30 preadipocyte differentiation medium. After 10 days, the cells were lysed, RNA was extracted and subjected to reverse transcription. The obtained cDNA was subjected to RT-PCR quantitative analysis.



Conclusion: When the differentiated cell is treated with 0.5mg/ml Siped® AB-30, the expression of PGC-1 $\alpha$  can be effectively promoted by near to 62%.

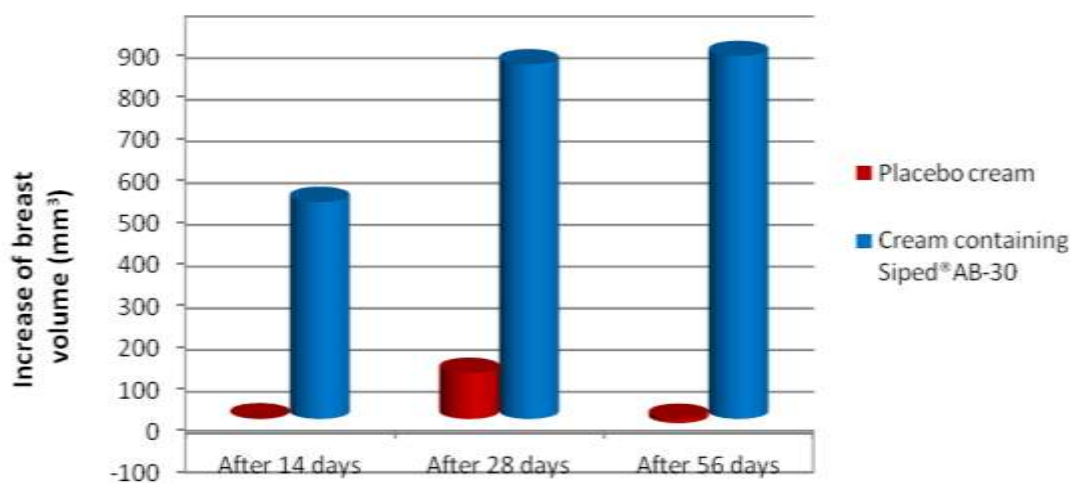
2 Effect on lipid accumulation: Siped® AB-30 was added to highly differentiated human preadipocytes. The level of intracellular lipid droplets was determined by FL fluorescence after 10 days.



Conclusion: When the differentiated cell is treated with 0.5mg/ml Siped®AB-30, Lipid accumulation is higher than non-treated differentiated by near to 33%.

## In vivo efficacy

Effect on breast volume: A group of 30 women aged 25 to 40 with the busts between 80-90cm are involved in this test. A cream containing 2% Siped®AB-30 was coated on a breast and the placebo on the other, twice a day for 56 days. the chest volume was measured on day 14, 28 and 56 with FOITS technique.



Conclusion: Compared with placebo, the volume of breast coated with Siped®AB-30 increased by more than 30 times after 56 days.

## Recommended use level

1 to 4%

## Formulation Tips

- 1 Incorporated in cosmetic formulations at room temperature.
- 2 Can be compatible with carbomer
- 3 Soluble in water, ethanol and glycols.

## Package

5Kg/ tin

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