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## Product Data Sheet

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Product Name: pm26TGF- $\beta$ 1 peptide

Cat. No.: GC62068

### Chemical Properties

Cas. No.

Formula C<sub>54</sub>H<sub>93</sub>N<sub>19</sub>O<sub>20</sub>S<sub>2</sub>

M.Wt

1392.56

Solubility

Storage

Store at -20°C

General tips

For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

pm26TGF- $\beta$ 1 peptide is a peptide that mimics a portion of the human TGF- $\beta$ 1 molecule. pm26TGF- $\beta$ 1 peptide shows high affinity for the TGF- $\beta$ 1 receptor. pm26TGF- $\beta$ 1 peptide displays potent anti-inflammatory properties and does not exhibit neutrophils' chemoattraction[1][2].

The synthetic pm26TGF- $\beta$ 1 peptide (1  $\mu$ M, 10  $\mu$ M and 100  $\mu$ M; 24-48 hours) tested in peripheral blood mononuclear cells (PBMC) significantly down-modulates TNF- $\alpha$  and up-regulates IL-10 responses in an inflammatory microenvironment, leading to regulatory T cells (Treg) phenotype differentiation[1].

pm26TGF- $\beta$ 1 peptide (100-1000  $\mu$ g/kg; subcutaneous injection; once; male C57BL/6 mice) treatment decreases neutrophils migration during inflammatory process in C57BL/6 mice[1].

[1]. Emília R Vaz, et al. A Short Peptide That Mimics the Binding Domain of TGF- $\beta$ 1 Presents Potent Anti-Inflammatory Activity. PLoS One. 2015 Aug 27;10(8):e0136116.

[2]. Rodrigues, Tamiris Sabrina. Evaluation of the action of the synthetic peptide pm26TGF- $\beta$ 1, human TGF- $\beta$ 1 mimetic, on TNF- $\alpha$  induced apoptosis in Drosophila melanogaster. Universidade Federal de Uberlândia, 2017.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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