

# EG-Decorin

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Compound:	EGT022 (human derived recombinant polypeptide)
Indication:	Pressure sore
Development Stage:	Clinical Phase I/II
Intellectual Property:	PCT/KR2007/000330

### Introduction

- EG-Decorin (compound name: EGT022), a topical ointment for pressure sore and diabetic foot ulcer, induces rapid repair of damaged capillaries. Thus, it promotes enhanced wound healing. EG-Decorin is majorly composed of human-derived protein ADAM-15 and repairs capillaries via recruiting pericytes.
- In the molecular aspect, EGT022 is a RGD motif containing recombinant polypeptide from human derived protein ADAM-15. EGT022 has a molecular weight of 6.1- kDa and is composed of over 58 amino acids.
- EGT022 is a therapeutic agent for chronic ischemic disorders such as pressure sore, diabetic foot ulcer.

### **Development Summary**

- **EG-Decorin** induces accelerated wound closure and replacement of granulation tissue in pressure sore induced in normal, diabetic, steroid treated, and old aged mice models.
- EG-Decorin improves proliferative activities of epidermal cells in rabbit full-thickness ear wound model.
- EG-Decorin does not induce skin contraction on the wound lesion during wound healing.
- EG-Decorin improves micro-vascular disorders caused by ischemia-reperfusion cycles.
- EG-Decorin promotes stabilization and maturation of impaired vessels in wounded lesions.
- Expression system in *Pichia pastoris* and 250L production and purification process has been established.



#### **Competitive advantages**

- **EG-Decorin** (EGT022) is first in class with the new RGD motif mechanism.
- **EG-Decorin** accelerates wound healing through a reduction of edema, maturation and stabilization of impaired vessels, and enhanced replacement of granulation tissues on ischemic wounds.
- · No significant toxicity was observed in pre-clinical toxicology studies.
- EGT022 may have potential benefits for other ischemic disorders such as diabetic retinopathy.

## Partnering Interests: Co-development and Licensing Out