

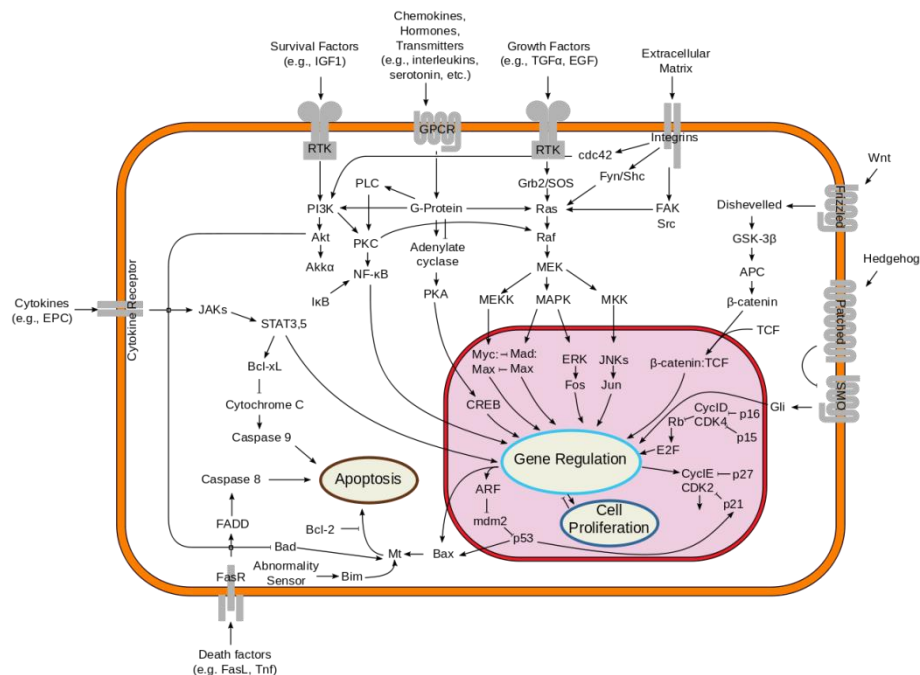
Tekho Marine Biotech

## The Brand New Exclusive Skincare Ingredients of Global Beauty

*Totipotent Prostembryona Factor<sup>®</sup>*

### Totipotent Prostembryona Factor<sup>®</sup>

**Extract from embryonic stem cells of deep-sea fish species.** By our exclusive cold-water extraction method, we got all kinds of peptides from embryonic stem cells, which could secrete multiple ingredients such as growth factor and cytokines that induce cell proliferation and differentiation. It is the most favorable condition to retain for the cell regeneration and differentiation of Totipotent Prostembryona Factor<sup>®</sup>.



Stem cells can differentiate into other types of cells, and can also divide in self-renewal.

There are two types of stem cells: embryonic stem cells and adult stem cells. Embryonic stem cells are totipotent. In a developing embryo, stem cells secrete lots of peptide molecule. Embryonic stem cells can differentiate into all the specialized cells and organs, so they are extremely precious.

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## Efficacy of Totipotent Prostembryona Factor®

After several cell model tests, we have confirmed that our products have well functions on anti-oxidation, tyrosinase inhibition, promoting collagen synthesis and promoting skin wound healing. In that case, **Totipotent Prostembryona Factor®** possess anti-aging, elastic, firm, anti-wrinkle, whitening, moisturizing and accelerated-healing for all-round skin care.

Furthermore, we also did the animal model tests. During the deep second degree burns, we used **Totipotent Prostembryona Factor®** then confirmed that it can promote skin wound healing 2-3 days earlier. Not only reduce the possibility for infection but also short the inflammatory period.

Embryonic stem cells have the powerful ability of stimulating cell proliferation and differentiation; in addition, they have secreted multiple growth factors as well (e.g. VEGF, IGF-I, EGF, KGF...etc.).

We use our exclusive cold-water extraction method to get the multiple growth factors. **Totipotent Prostembryona Factor®** can not only work on epidermis layer but also on dermis layer, that stimulates fibroblast to secrete collagen, inhibition of melanin synthesis, and accelerated wound-healing. It shows the remarkable potential to exceed the limit of traditional cosmetic products which only work on skin epidermis layer and reach real anti-aging efficiency.

## Safety of Totipotent Prostembryona Factor®

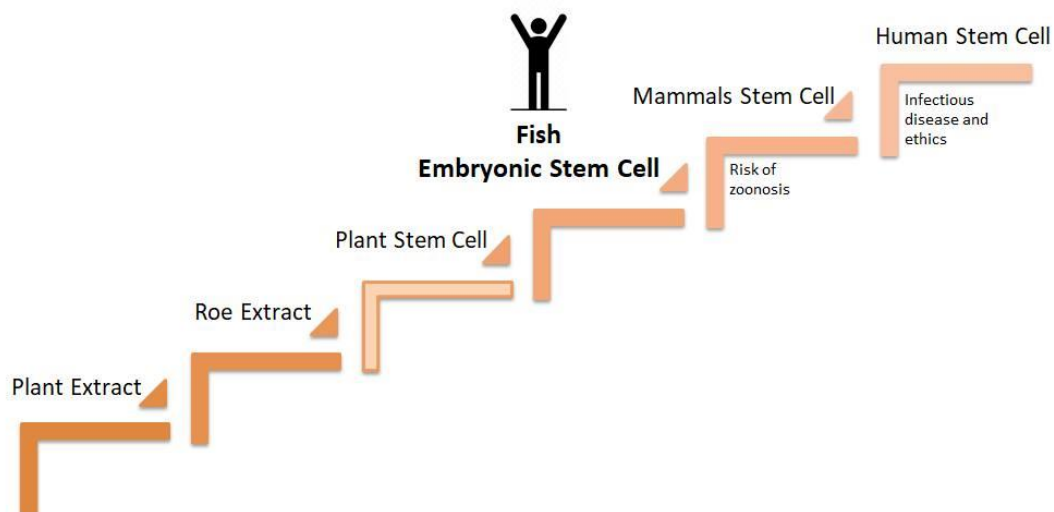
Our product extracted from embryonic stem cells of deep-sea fish species and the process did not use any organic solvents. According to the clinical skin patch safety

test which lasted for 48 hours caused no itch, redness and tingling. Above all, there are no possibility of the both infectious disease risk and medical ethics concerns.

## Comparison between Totipotent Prostembryona

### Factor<sup>®</sup> and Roe Extract and Plant Stem Cell Extract

Item	Totipotent Prostembryona Factor <sup>®</sup>	Roe Extract	Plant Stem Cell Extract
From	Active fertilized roe	Inactive roe	Roots stem cell
Ingredient	Embryonic stem cells : growth factors 、 cytokine 、 peptide	protein 、 nucleic acid	peptide
Efficacy	whitening 、 moisturizing 、 anti-aging and promotes skin wound healing	moisturizing	moisturizing 、 whitening 、 anti-aging



### 【 Biocompatibility with human being 】

**Totipotent Prostembryona Factor<sup>®</sup>** extract from stem cells of deep-sea fish species, which secreting multiple peptide. That was just as certain bio-product which extracted the active ingredients during the probiotics growth and fermentation process. It is a friendly biological factory that is consistent with sustainable use and environmental protection.

**Totipotent Prostembryona Factor®** has been exclusively approved by the International Cosmetic Ingredient Name (INCI NAME). The relevant datasheet just as specification, COA, MSDS are all available. Above all, we have applied for several international patents and trademarks, **Totipotent Prostembryona Factor®** is a brand new ingredient of global beauty/skincare market.