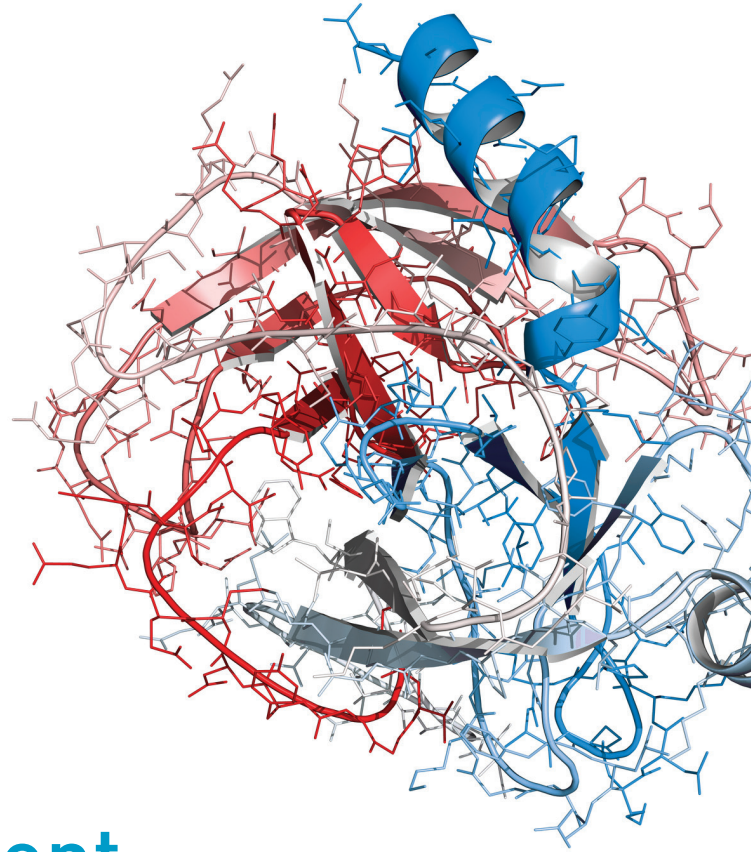




**BI**  
Biological Industries  
*Culture of Excellence*



Chemical structure of  
trypsin enzyme

All the way with animal  
component-free solutions

# Animal Component- Free (ACF) Recombinant Trypsin Solutions

## Alternative to porcine/bovine trypsin

- **Animal Component-Free (ACF)**

Eliminates the risk of viruses or other potential adventitious agents found in animal derived components.

- **High Purity**

- Pure enzyme solutions increase specificity and eliminate contaminating activities found in lower purity enzymes.
- Free of chymotrypsin, carboxypeptidase-A and other protease contaminants.
- Prevents the toxic effects induced by non-desirable proteases.

- **High Activity**

- Maximizes the yield of functionally viable cells.
- Recombinant Trypsin-EDTA Solution (Cat. No. 03-079-1) accelerates the dissociation phase.
- Results in efficient dissociation of adherent cell types (including primary and sensitive cells) from surfaces and tissues.
- Optimized for hMSCs, from a variety of sources, cultured in both serum-free and serum-containing systems.

- **Enzyme Inhibition**

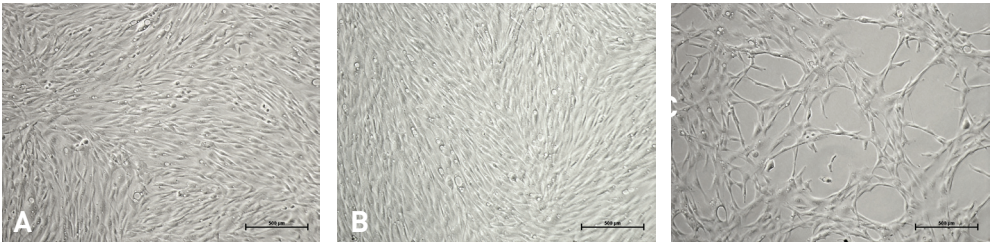
Inactivation with Soybean Trypsin Inhibitor (SBTI, Cat. No. 03-048-1).

- **Ready-to-use**



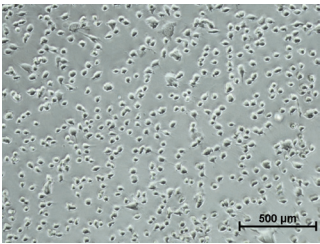
### Comparison of hMSC Dissociation with Various Trypsin Solutions

Recovery of hMSC- Adipose Tissue (AT) cultured in MSC NutriStem XF medium after dissociation with three different dissociation solutions



**Figure 1.**  
hMSC-AT, 3 days post split I – Cells were equally seeded (5000cells/cm<sup>2</sup>) in MSC NutriStem® XF medium. The dissociation procedure was carried out at 37° using:  
A. Recombinant Trypsin Solution, without EDTA (BI's Cat. No. 03-078-1)  
B. Crystalline Trypsin (BI's Cat. No. 03-047-1) (high purity)  
C. Trypsin sol. C (BI's Cat. No. 03-053-1) (crude trypsin)

### Rapid and Efficient Dislodging of hMSC with Recombinant Trypsin



**Figure 2.**  
hMSC-BM cultured in MSC NutriStem® XF medium, were incubated for 2-5 min at 37°. with Recombinant Trypsin Solution (Cat. No. 03-078-1)

### Ordering Information

Product Name	Cat. No.	Unit Size	Storage Temp.
Recombinant Trypsin Solution	03-078-1B	100ml	RT
Recombinant Trypsin-EDTA Solution	03-079-1B	100ml	RT
Soybean Trypsin Inhibitor (SBTI) x50	03-048-1C	20ml	-20°C

### Source of raw material:

The Recombinant Trypsin is produced by submerged fermentation of *Fusarium Oxysporum*.  
It is derived from a production process which does not utilize any raw materials and/or processing aids of animal origin.