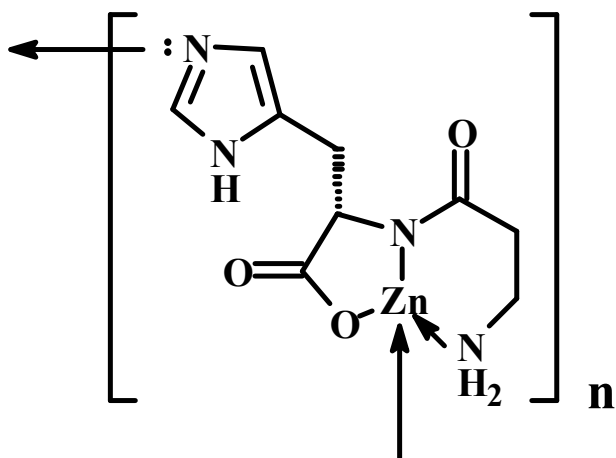
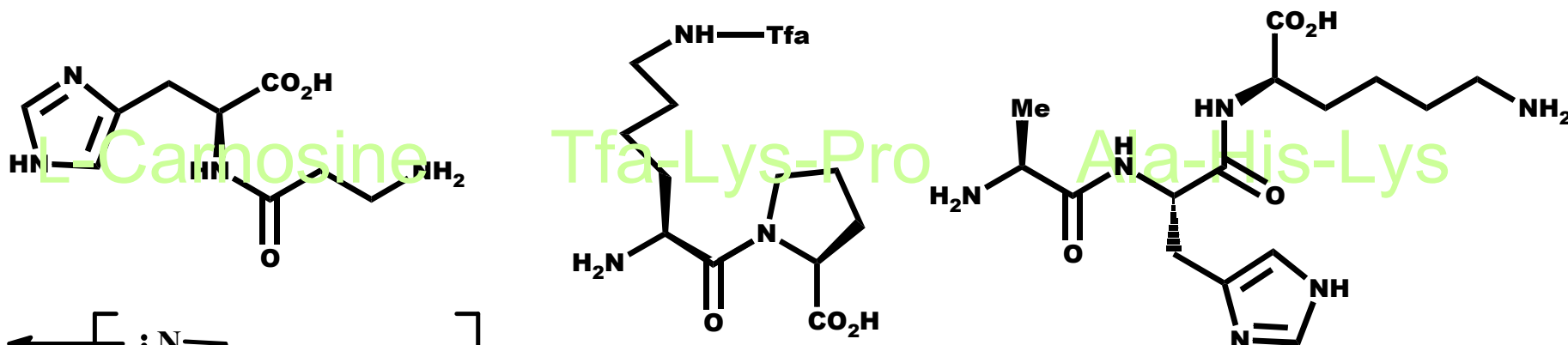


# Peptide Manufacturing

HAMARI CHEMICALS LTD.

> More than 30 years of experience in peptide synthesis.



**Polaprezinc**

- API in Japan
- Dietary supplement in USA

## Capacity / kg to ton scale

Capacity	(maximum per year)
di-peptide	: 50 tons
tri-peptide	: 20 tons
tetra, penta-peptide	: 10 tons
hexa-peptide	: 5 tons

# Peptide Manufacturing

 HAMARI CHEMICALS LTD.

- > Expertise in **small to medium length molecular peptides**.
- > Extensive technology using **solution phase synthesis**.
- > Experience in cGMP synthesis for clinical studies.

## Manufacturing experience

### Peptide projects

di	-peptide :	8
tri	-peptide :	6
tetra	-peptide :	3
penta	-peptide :	1
hexa	-peptide :	1
nona	-peptide :	1
Total projects (2003–2005)		20

## Custom manufacturing

- > Intermediates for
  - ACE inhibitors
  - Anti-cancer drugs
  - HIV protease inhibitors
- > Cosmetic substances
- > Dietary supplements