$$\mathcal{L}_{\text{InfoNCE}}(i) = -\log \frac{\exp\big(\text{sim}(z_i, z_{i^+})/\tau\big)}{\sum_{k=1}^{K} \exp\big(\text{sim}(z_i, z_k)/\tau\big)}$$

$$\text{sim}(a, b) = \frac{a^\top b}{\|a\| \, \|b\|} \quad \text{(cosine similarity)}$$