Excellgen
Protein Engineering

Cre Recombinase

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Cat #	EG-1021
Description	Recombinant Cre recombinase (TAT-Cre) was purified from an HEK293 cell line expressing enhanced form of Cre Recombinase from bacteriophage P1. This Cre recombinase has an N-terminal 6XHis tag, a Tat peptide (GRKKRRQRRRPPAGTSVSL) and an NLS sequence (PKKKRKV). HTNC is the most effective protein in transduction (in vivo) and subsequent recombination compared to other forms of Cre recombinases, e.g., HNC, TCH6, HC, HNCM, CH.
Applications	Transduction into cultured cells including stem cells ex vivo
Source	HEK 293 cells
Properties	**QC**: HEK293T- Cre reporter cell line 80~100% recombination efficiencies. **Endotoxin Levels**: < 0.1 EU/ug Sterilized by filtering through a 0.2 micron filter
Storage Buffer	20 mM HEPES, 600 mM NaCl, 50% Glycerol, 200 mM Arginine, 1 mM DTT, pH 7.4 @ 25°C
Storage	-20ºC ~ -80ºC

Protocol

Transduction of Cre recombinase (Tat-Cre) into cultured cells

- Add appropriate amount of Tat-Cre, *e.g.*, 5 uM, or 100 units, to culture medium and incubate 2 to 5 days.