

Cytosine Base Editor, GMP

Product Information

Cat#	CAS-0906
Source	E. coli
Description	Cytosine Base Editor (GMP grade) is a Cytosine Base Editor (CBE) fused from Cas9 Nickase, Deaminase, and UGI. Deaminates C to U at the target position (window 3-12). Creatively cages the deaminase, Active only upon sgRNA binding to the target, significantly reducing random binding, achieving near-zero off-target effects. Validated in primary NK and T cells. No DSB introduction ensures safety.
Storage	Dry ice shipping, $-80 \pm 10^{\circ}\text{C}$, avoid freeze-thaw
Purity	$\geq 88\%$ (RP-HPLC) ; $\geq 80\%$ (SEC-HPLC)
Optimum pH	8.0 \pm 0.5
Buffer	30 mM Tris, 300 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 50% Glycerol, pH 8.0
Abbr	CBE
Applications	Single Base Editing; Induce stop codon to Knockout target gene; Mutate splice sites to Knockout target gene.
Appearance	Liquid
Molecular Weight	210.14 kDa
Concentration	9.0-11.0 mg/ml
Endotoxin Level	≤ 10 EU/mg
Grade	GMP Grade