

## Cytosine Base Editor

### Product Information

<b>Cat#</b>	CAS-0905
<b>Source</b>	E. coli
<b>Description</b>	The cytosine base editor (CBE) is a fusion of a Cas9 nickase, a deaminase, and a UGI. Deaminates C to U at the target position (window 3-12) without DSB. 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. Ensures editing safety.
<b>Storage</b>	Dry ice shipping, $-80 \pm 10^{\circ}\text{C}$ storage, avoid freeze-thaw
<b>Purity</b>	$\geq 80\%$ (SEC-HPLC)
<b>Buffer</b>	30 mM Tris, 300 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 50% Glycerol, pH 8.0
<b>Abbr</b>	CBE
<b>Applications</b>	Single Base Editing; Induce stop codon to Knockout target gene; Mutate splice sites to Knockout target gene.
<b>Appearance</b>	Liquid
<b>Molecular Weight</b>	210.14 kDa
<b>Concentration</b>	10 mg/ml
<b>Grade</b>	Research Grade