



Creative Enzymes

Diagnostic Enzymes

Luciferase from Escherichia coli

Product Information

Cat#	DIA-488
Source	Escherichia coli
Description	Luciferase from Escherichia coli is a recombinant bioluminescent enzyme widely used as a sensitive reporter in molecular biology and biochemical assays. It catalyzes light-emitting reactions in the presence of appropriate substrates, enabling rapid and quantitative detection of gene expression, enzymatic activity, and ATP-related processes. This enzyme offers high sensitivity, good signal reproducibility, and compatibility with standard luminescence detection systems, making it suitable for applications in reporter gene assays, biosensor development, and method validation.
Form	Lyophilised powder
Unit Definition	One luciferase enzyme unit will produce one Relative Light Unit (RLU) at 20-25 °C over a 10 second period, measured in 100 µL assay mixture containing 40 pmol ATP and 15 nmol luciferin in Tris-glycine buffer, pH 7.6, using a GloMax 20/20 Luminometer.
Storage	-20 °C
Concentration	$\geq 1 \times 10^{10}$ U/mg solid
Package	10mg/25mg/100mg

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