

StayBrite™ Highly Stable Recombinant Luciferase (rLucHS)

CATALOG #: 7901-1 1 mg
7901-5 5 mg

FORM: Lyophilized from 1% BSA & 5 mM DTT solution

SPECIFIC ACTIVITY: ~ 5x10¹¹ RLU/mg protein

PURITY: ≥90% by SDS-PAGE

STORAGE CONDITIONS:

For long term storage it is recommended to store StayBrite Highly Stable Recombinant Luciferase at -80°C for 1 year. Upon dilution to approximately 150 µg/ml (by adding 1 ml appropriate reconstitution buffer), the enzyme solution can be stored at 4°C for at least two months. Avoid multiple freeze/thaw cycles as the activity will decrease.

DESCRIPTION:

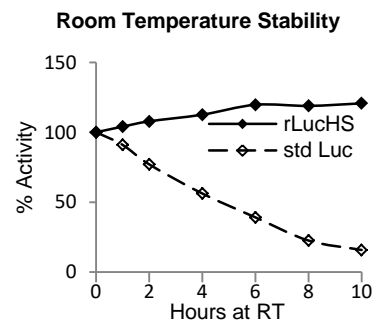
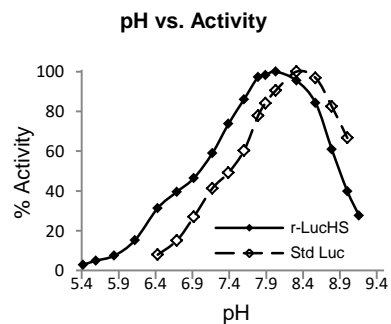
BioVision's StayBrite Highly Stable Luciferase (rLucHS) is a genetically modified variant derived from the Luciferase of *Diaphanes pectinealis* (Chinese Firefly) endemic to Yunnan province, China. It doesn't contain Luciferin. It has been modified to provide enhanced stability compared to the normal phenotype of *Photinus pyralis* as well as a broader and more physiologically relevant effective pH range. At all pHs below 8.2, rLucHS is significantly more active than commercial *Photinus* luciferase and is stable for weeks at room temperature and > 60 minutes at 37°C.

APPLICATIONS AND USAGE:

This reagent has application to measure ATP levels in a wide variety of biological samples such as cells, tissues and fermentation broth. This product doesn't contain any Luciferin. We recommend using 10 µl/well of the diluted luciferase (150 µg/ml) and appropriate amount of luciferin (we recommend using 0.4 mg/well) to measure ATP levels in the samples.

RELATED PRODUCTS:

- StayBrite™ Highly Stable Luciferase/Luciferin Reagent (Cat. No. K790)
- StayBrite™ Highly Stable ATP Assay Kit (Cat. No. K791)
- ADP Colorimetric/Fluorometric Assay Kit (Cat. No. K355)
- ADP/ATP Ratio Assay Kit (K255)
- ATP Cell Viability Assay Kit (Cat. No. K254)
- ATP Colorimetric/Fluorometric Assay Kit (Cat. No. K354)
- Bioluminescence Cytotoxicity Assay Kit (K312)
- Luciferase Polyclonal Antibody (Cat. No. 3848)
- Luciferase Reporter Assay Kit (K801)
- StayBrite™ D-Luciferin, Sodium Salt (K7902)



FOR RESEARCH USE ONLY! Not to be used on humans.