BioVision
BioVision Incorporated

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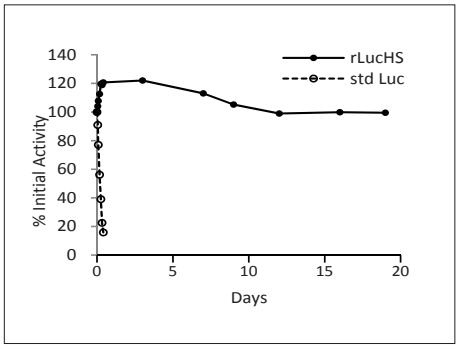
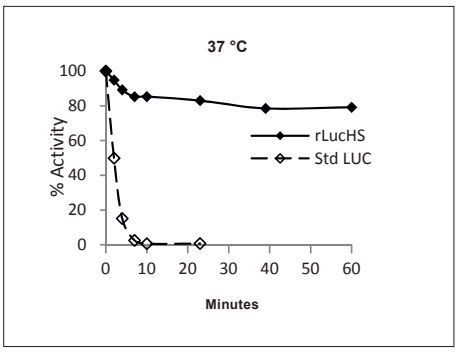
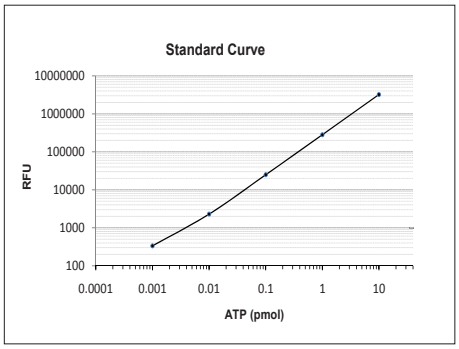
# StayBrite™ Highly Stable Luciferase Products

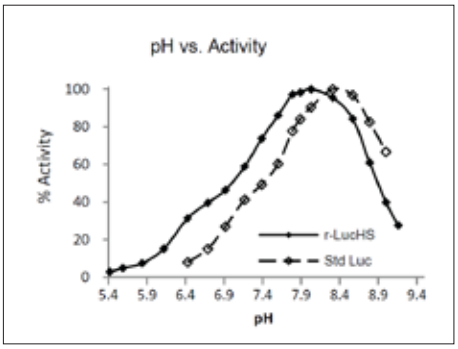
Adenosine-5'-triphosphate (ATP) is a multifunctional nucleotide that plays an important role in cell biology as the substance of intracellular energy transfer and an index of cell viability and cytotoxicity. ATP is an energy source produced during photosynthesis and cellular respiration and consumed by many enzymes and a multitude of cellular processes, including biosynthetic reactions, motility, and cell division. ATP levels are a versatile tool to moniter kinase activity, as well as, other ATP-dependent processes; which are key to understanding pathology's ranging from cancer to obesity. Moreover, Cell death (especially apoptosis) is an energy-dependent process that requires ATP. As ATP levels fall to a point where the cell can no longer perform basic metabolic functions, the cell will die. In contrast, cell proliferation has been recognized by increased levels of ATP.

BioVision's StayBrite™ Highly Stable Luciferase Product Line utilizes a genetically modified variant derived from the Luciferase of Diaphanes pectinealis (Chinese Firefly) endemic to Yunnan province, China. It has been modified to provide enhanced stability compared to the normal phenotype of Photinus pyralis, excellent sensitivity, a broader and more physiologically relevant effective pH range. At all pHs below ~ 8.2, BioVision's rLucHS is significantly more active than commercial Photinus luciferase. The luciferase is stable > 10 hours at room temperature and > 60 minutes at 37 °C. The activity profile shows a linear detection range for ATP values as low 10 fmol/assay (1 nM). The specific activity of rLucHS is ~ 5x1011 RLU/mg protein.




| Product Name | Cat. # | Size | Price |
|---|---|---|---|
| StayBrite™ Highly Stable Luciferase | 7901-150 | 150 ug | $295 |
| StayBrite™ D-Luciferin, Sodium Salt | 7902-100 | 100 mg | $69 |
| StayBrite™ D-Luciferin, Sodium Salt | 7902-1G | 1 g | $395 |
| StayBrite™ D-Luciferin , Sodium Salt | 7902-10G | 10 g | $3495 |
| StayBrite™ Highly Stable Luciferase/Luciferin Reagent | K790-100 | 100 assays | $95 |
| StayBrite™ Highly Stable Luciferase/Luciferin Reagent | K790-1000 | 1000 assays | $695 |
| StayBrite™ Highly Stable Luciferase/Luciferin Reagent | K790-10000 | 10000 assays | $4950 |
| StayBrite™ Highly Stable ATP Assay Kit | K791-100 | 100 assays | $135 |
| StayBrite™ Highly Stable ATP Assay Kit | K791-1000 | 1000 assays | $895 |

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