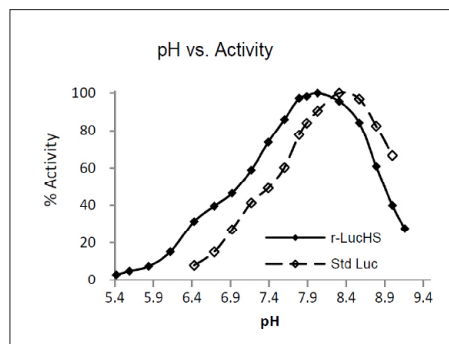
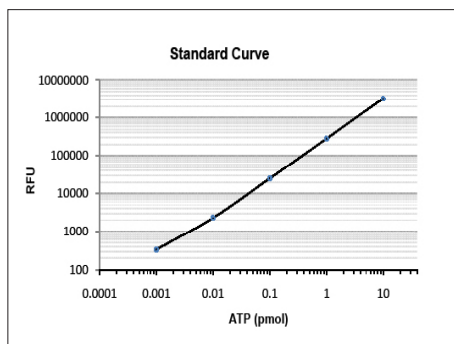
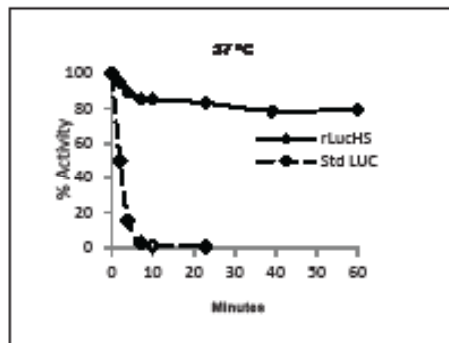
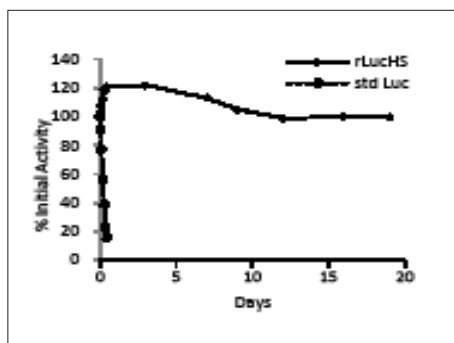


StayBrite™ Highly Stable Luciferase Products

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 monitor 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. No.	Size
StayBrite™ D-Luciferin (Free acid)	2779	250 mg, 500 mg, 1 g, 5 g
StayBrite™ D-Luciferin, Potassium Salt	7903	3 x 1 g, 5 x 1 g, 10 x 1 g, 100 mg, 1 g, 10 g
StayBrite™ D-Luciferin, Sodium Salt	7902	3 x 1 g, 5 x 1 g, 10 x 1 g, 100 mg, 1 g, 10 g
StayBrite™ Highly Stable ATP Assay Kit	K791	100 assays, 1000 assays
StayBrite™ Highly Stable Luciferase	7901	150 ug
StayBrite™ Highly Stable Luciferase/Luciferin Reagent	K790	100 assays, 1000 assays, 10000 assays

Please visit www.BioVision.com for a comprehensive overview on our products!

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