



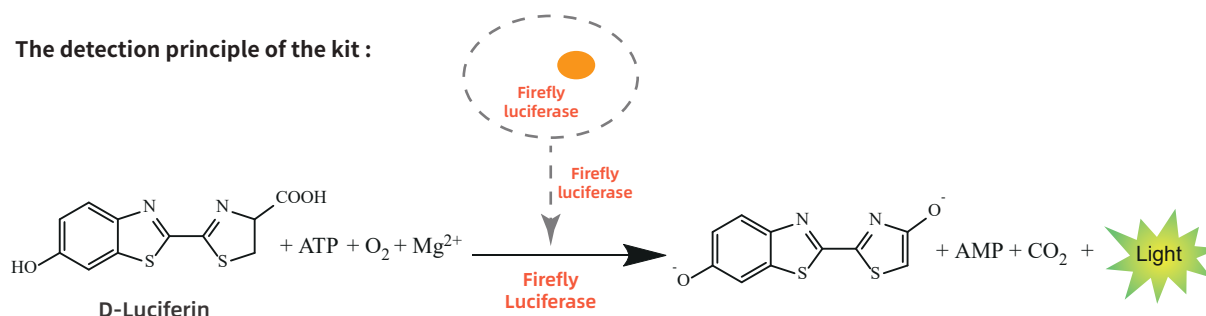
KeyTec® Luciferase Detection Kit

Background

Bioluminescence is a naturally occurring phenomenon observed in marine organisms, certain bacteria, fungi, and terrestrial insects. Bioluminescent systems consist of diverse luciferases and luciferins, encompassing more than 40 known bioluminescent systems. Luciferases, with their low toxicity, high quantum yield, and exceptional sensitivity in bioluminescent reactions, serve as invaluable reporter genes for investigating analytes and metabolites in both prokaryotic and eukaryotic cells. Among these luciferases, firefly luciferase stands out as the preeminent choice for bioluminescence studies, being extensively employed as a reporter gene.

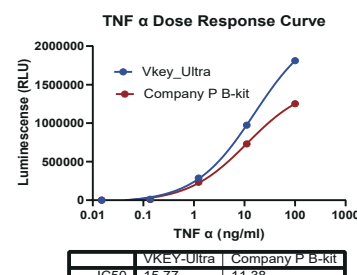
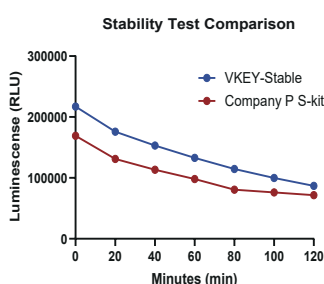
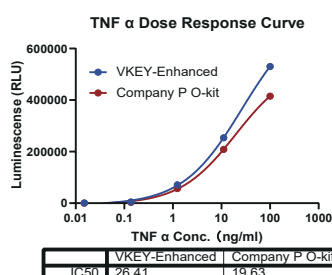
Principle

The detection principle of the kit :



Advantages

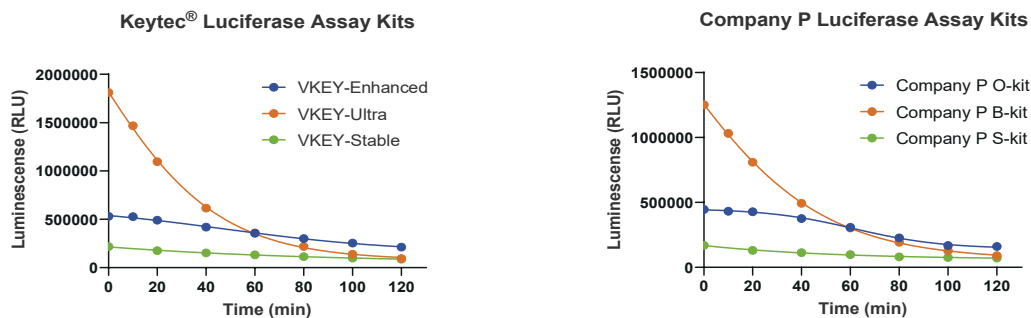
The KeyTec® Luciferase Detection Kit and the competitor were utilized to evaluate NFκB-Luc-HEK293 cells under identical conditions. The obtained results are as follows:



Signal: Ultra > Enhanced > Stable

Half-life period: Stable > Enhanced > Ultra

The KeyTec® Luciferase Detection Kits and the competitor were utilized to evaluate NFκB-Luc-HEK293 cells under identical conditions. The summarized results obtained are as follows:



Product List

KeyTec® Enhanced Luciferase Detection Kit: Applied to general reporter gene assays

Brand	CAT	Description	Size
VKEY-BIO	A2000100N	KeyTec® Enhanced Luciferase Detection Kit (100 tests)	10 mL
VKEY-BIO	A2000101N	KeyTec® Enhanced Luciferase Detection Kit (1,000 tests)	2*50 mL
VKEY-BIO	A2000102N	KeyTec® Enhanced Luciferase Detection Kit (5,000 tests)	2*250 mL
VKEY-BIO	A2000103N	KeyTec® Enhanced Luciferase Detection Kit (10,000 tests)	4*250 mL

KeyTec® Stable Luciferase Detection Kit: Applied to HTS reporter gene assays

Brand	CAT	Description	Size
VKEY-BIO	A2000200N	KeyTec® Stable Luciferase Detection Kit (100 tests)	10 mL
VKEY-BIO	A2000201N	KeyTec® Stable Luciferase Detection Kit (1,000 tests)	2*50 mL
VKEY-BIO	A2000202N	KeyTec® Stable Luciferase Detection Kit (5,000 tests)	2*250 mL
VKEY-BIO	A2000203N	KeyTec® Stable Luciferase Detection Kit (10,000 tests)	4*250 mL

KeyTec® Ultra Luciferase Detection Kit: Applied to low expression reporter gene assays

Brand	CAT	Description	Size
VKEY-BIO	A2000300N	KeyTec® Ultra Luciferase Detection Kit (100 tests)	10 mL
VKEY-BIO	A2000301N	KeyTec® Ultra Luciferase Detection Kit (1000 tests)	2*50 mL
VKEY-BIO	A2000302N	KeyTec® Ultra Luciferase Detection Kit (5,000 tests)	2*250 mL
VKEY-BIO	A2000303N	KeyTec® Ultra Luciferase Detection Kit (10,000 tests)	4*250 mL