Revised: August 17, 2016

Product Information

Firefly Luciferase Stabilizer, 2.5X

Catalog Number: 30083

Size: 20 mL

Storage and Handling

Store at -20°C. Product is stable for at least 6 months from date of receipt when stored as recommended.

Product Description

Firefly luciferase is widely used as a reporter for studying gene regulation and function, and for pharmaceutical screening. Purified recombinant firefly luciferase enzyme is available commercially, and can be a useful positive control for luciferase assays. Firefly Luciferase Stabilizer is required when diluting purified recombinant firefly luciferase in the Passive Lysis Buffer provided in Biotium's Firefly & *Renilla* Luciferase Single Tube Assay Kit. We also offer the Firefly and *Renilla* Luciferase Single Tube Assay Kit for Purified Luciferase, which includes Stabilizer along with the other Single Tube Assay components.

Stabilizer not required when using Passive Lysis Buffer with transfected cells or purified recombinant *Renilla* luciferase.

Protocol

To prepare 1X Passive Lysis Buffer with Stabilizer, combine 1 volume of 5X Passive Lysis Buffer, 2 volumes of 2.5X Firefly Luciferase Stabilizer, and 2 volumes of dH_2O.

Recombinant firefly luciferase is stable for up to two hours at room temperature in Passive Lysis buffer with Stabilizer. Recombinant *Renilla* luciferase should be assayed within 15 minutes of dilution in Passive Lysis Buffer, whether or not stabilizer is used.

Stabilizer does not substantially affect luciferase activity in transfected cell lysates. However, if samples are to be compared directly within an experiment, it is advisable to use the same Passive Lysis Buffer formulation (either with or without Stabilizer) for all samples.

Related Products

Catalog number	Product
99912	5X Passive Lysis Buffer, 30 mL
30084	Firefly & *Renilla* Luciferase Single Tube Assay Kit for Purified Luciferase
30081	Firefly & *Renilla* Luciferase Single Tube Assay Kit
22003	Mini Cell Scrapers, pack of 200
30003	Firefly Luciferase Assay Kit
30075	Firefly Luciferase Assay Kit (Lyophilized)
30082	*Renilla* Luciferase Assay Kit 2.0
30028	Steady-Luc™ Firefly HTS Assay Kit
30028L	Steady-Luc™ Firefly HTS Assay Kit, Lyophilized
30020	ATP-Glo™ Bioluminometric Cell Viability Assay
10126	Aquaphile™ Coelenterazine
10127	Aquaphile™ Coelenterazine h

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