

## Renilla-luciferin 2-monooxygenase

Cat. No. EXWM-0618

Lot. No. (See product label)

### Introduction

#### Description

From the soft coral coelenterate *Renilla reniformis*. The luciferin is bound to a luciferin-binding protein (BP-LH2). The bioluminescent reaction between the luciferin complex, luciferase and oxygen is triggered by calcium ions. In vivo, the excited state luciferin-luciferase complex undergoes the process of nonradiative energy transfer to an accessory protein, Renilla green fluorescent protein, which results in green bioluminescence. In vitro, Renilla luciferase emits blue light in the absence of any green fluorescent protein.

#### Synonyms

Renilla-type luciferase; aequorin; luciferase (Renilla luciferin)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.13.12.5

#### CAS No.

61869-41-8

#### Reaction

Renilla luciferin + O<sub>2</sub> = oxidized Renilla luciferin + CO<sub>2</sub> + hv

#### Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

#### Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.