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Luciferase, 1-311aa, Renilla reniformis, His-tag, E.coli (Bioactivity Validated)

产品货号: TP02856

第三版

别名: Luciferase

描述: LUC, also known as luciferase. LUC catalyzes the oxidative decarboxylation of coelenterazine in the presence of dissolved oxygen to yield oxyluciferin, CO₂, and blue light. In vivo, the excited state luciferin-luciferase complex undergoes the process of nonradiative energy transfer to an accessory protein, green fluorescent protein, which results in green bioluminescence. In vitro, it emits blue light in the absence of any green fluorescent protein. Recombinant renilla reniformis LUC, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

配方: Liquid. 20mM Tris-HCl (pH8.0) containing 1mM DTT, 10% glycerol

分子量: 38.5 kDa (335aa) Confirmed by MALDI-TOF

序列:

MGSSHHHHHSSGLVPRGSHMGSHMTSKVYDPEQRKRMITGPQWWARCKQMNVLDSFINYYDSEKHAENAVIFLHG
NAASSYLWRHVVPPIEPVARCIIPDLIGMGKSGKSGNGSYRLLDHYKYLTAWFELLNLPKKIIFVGHWDWGAFLAFHYSYEH
QDKIKAIVHAESVVDVIESWDEWPDIEEDIALIKSEEKGMVLENNFFVETMLPSKIMRKLEPEEFAAYLEPFKEKGEVRRPT
LSWPREIPLVKGKPDVVQIVRNYNAYLRASDDLPMFIESDPGFFSNAIVEGAKKFPNTEFVKVKGHLHFSQEDAPDEMKG
YIKSFVERVLKNEQ

纯度: > 95% by HPLC

浓度: 0.5 mg/ml (determined by Bradford assay)

内毒素: <1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.