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32-2513: Luciferase Recombinant Protein

Alternative Name : Luciferase-like monooxygenase,LUC,EC 1.13.12.7.

Description

Source : Escherichia Coli. Luciferase produced in E.Coli is a single, non-glycosylated polypeptide chain containing 571 amino acids (1-550 a.a.) and having a molecular mass of 62.9kDa.Luciferase is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Luciferase is a general term for the class of oxidative enzymes used in bioluminescence and is distinct from a photoprotein. Luciferase catalyzes a bioluminescent reaction which involves the substrate luciferin as well as Mg2+ and ATP, produces green light with a wavelength of 562 nm. Luciferase from firefly is broadly used as a reporter for studying gene regulation and function, and for pharmaceutical screening.

Product Info

Amount :	20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The Luciferase protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH-8), 1mM DTT, and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MMEDAKNIKK GPAPFYPLED GTAGEQLHKA MKRYALVPGT IAFTDAHIEV DITYAEYFEM SVRLAEAMKR YGLNTNHRIV VCSENSLQFF MPVLGALFIG VAVAPANDIY NERELLNSMG ISQPTVVFVS KKGLQKILNV QKKLPIIQKI IIMDSKTDYQ GFQSMYTFVT SHLPPGFNEY DFVPESFDRD KTIALIMNSS GSTGLPKGVA LPHRTACVRF SHARDPIFGN QIIPDTAILS VVPFHHGFGM FTTLGYLICG FRVVLMYRFE EELFLRSLQD YKIQSALLVP TLFSFFAKST LIDKYDLSNL HEIASGGAPL SKEVGEAVAK RFHLPGIRQG YGLTETTSAI LITPEGDDKP GAVGKVVPFF EAKVVDLDTG KTLGVNQRGE LCVRGPMIMS GYVNNPEATN ALIDKDGWLH SGDIAYWDED EHFFIVDRLK SLIKYKGYQV APAELESILL QHPNIFDAGV AGLPDDDAGE LPAAVVVLEH GKTMTEKEIV DYVASQVTTA KKLRGGVVFV DEVPKGLTGK LDARKIREIL IKAKKGGKIA V.

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