

SibTech, Inc.

LFn-ct/Cy

Product #SBT902

Fluorescent tracer LFn-ct/Cy is based on LFn-ct (SibTech product #SBT901).

Synthesis: LFn-ct/Cy is synthesized by site-specific conjugation of Cy5.5-maleimide (GE Healthcare) to C4 residue of Cys-tag in LFn-ct. LFn-ct/Cy is purified by ion-exchange chromatography and lyophilized from 20 mM ammonium bicarbonate.

Purity: This preparation contains >98% pure protein. The protein and Cy5.5 concentrations were calculated using integral absorption in RP-HPLC profiles at 216 nm and 598 nm, respectively.

Functional activity: The functional activity of LFn-ct/Cy is determined by its ability to compete with the full-length lethal factor (List Biologics) to bind to cell-associated protective antigen (List Biologics). Functional test is performed on RAW 264.1 cells (ATCC #TIB-71). Relative to unmodified LFn-ct, LFn-ct/Cy displays 95-100% EGF activity.

Near-infrared Fluorescent Imaging via anthrax receptors: LFn-ct/Cy is intended for near-infrared fluorescent imaging and cell tagging via anthrax receptors.

One vial contains 0.1 mg of essentially salt-free lyophilized LFn-ct/Cy

Reconstitution: To insure full recovery, centrifuge the vial briefly before opening. Reconstitute in 0.1 ml of sterile PBS, to a final concentration of 1 mg/ml. We do not recommend using less than 0.1 ml for reconstitution.

Stability: LFn-ct/Cy is stable for 1 year at -20°C. After reconstitution, LFn-ct/Cy is stable and functionally active for at least 6 months, if stored at -70°C; and for 1-2 days at 4°C. Multiple thawing-freezing should be avoided.

Safety warnings: For research use only. Not for human use. Not recommended or intended for diagnosis in humans or animals. As all chemicals should be considered as potentially hazardous, it is advisable to wear suitable protective clothing, such as laboratory overalls, safety glasses and gloves. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water.