

New England Biolabs Product Specification

Product Name: CLIP-Surface™ 547
Catalog #: S9233S
Shelf Life: 24 months
Storage Temp: -20°C
Specification Version: PS-S9233S v1.0
Effective Date: 15 Sep 2017

Assay Name/Specification (minimum release criteria)

Cellular Protein Labeling (Cell Surface) - Mammalian cells transfected with pCLIPf-NK1R expressing the gene encoding the seven-pass transmembrane protein Neurokinin-1 receptor (NK1R) (cell surface) were labeled with 5 µM CLIP-Surface™ 547 for 1 hour and visualized by fluorescence microscopy resulting in the expected cell surface labeling.

Cellular Protein Labeling (Intracellular) - Mammalian cells transfected with pCLIPf-H2B expressing Histone H2B protein (nucleus) were labeled with 5 µM CLIP-Surface™ 547 for 1 hour and visualized by fluorescence microscopy resulting in no intracellular labeling.

Identity (Mass Spectrometry) - The observed molecular mass of CLIP-Surface™ 547 is 828.3 Da +/- 1 Da as determined by mass spectrometry analysis.

In Vitro Protein Labeling - A 50 µl reaction in 1X PBS and 1 mM DTT containing 5 µM of CLIP-tag® Purified Protein and a minimum of 10 µM of CLIP-Surface™ 547 is incubated for 1 hour at 37°C results in the expected labeled product that is visualized on SDS-PAGE by fluorescent detection.

Physical Purity (HPLC) - CLIP-Surface™ 547 is ≥ 80% pure as determined by HPLC analysis.



Date 15 Sep 2017

Derek Robinson
Director of Quality Control

