

N-GlyFind™ GST SureLight® 488 Kit contents

Catalog #	Description	Size	M. W.	Storage
NK0201F	N-GlyFind™ GST SureLight® 488 (NP0202F-0.2MG)	0.1 mL (2 mg/mL)	51,900	-20°C, up to 6 months
	5X Tris Buffered Saline (BA0104)	100 mL		4 to 25°C

This product is for research use only and not for resale or for any use in the manufacture of a therapeutic or for any diagnostic purpose.

Product Description

N-GlyFind™ GST SureLight® 488 Kit (NK0201F) contains a fusion protein of glutathione S-transferase (GST) and our original N-GlyFind™ Core-Specific Reagent (NP0102) engineered from *Mus musculus* Fbs1 (FBX02). This highly purified affinity reagent is more sensitive than the original N-GlyFind™ Core-Specific Reagent, and is designed for robust and specific detection of ManGlcNAc2-Asn within the N-glycan core structure commonly found in glycoproteins. Applications include use as a primary probe in ELISA, Western blot, flow cytometry, and other assays. Each kit includes 5X Tris Buffered Saline (BA0104) as a binding buffer to ensure maximum reagent specificity and ease of use.

The **N-GlyFind™ GST SureLight® 488** reagent has a molecular mass of about 52 kD and works without bivalent metal ions. It is 8xHis-tagged at its N-terminus, and an anti-polyhistidine antibody can be used for detection or, in the case of the fluorescent version, directly detected. The 8xHis tag may be removed by FasTEV™ (Cat #GE0501), a TEV protease with enhanced stability and catalytic activity.

N-GlyFind™ GST SureLight® 488 is made for fluorescence detection (Ex 496 nm; Em 517 nm). Applications include Western Blot, FLISA, flow cytometry, fluorescence microscopy, etc.

Form and Storage

The **N-GlyFind™ GST SureLight® 488** reagent is supplied as a 2 mg/mL solution in a storage buffer (50 mM EPPS, 200 mM NaCl, pH 7.5). Concentration is determined by spectrophotometry using E^{1%} 21.8. The actual absorbance at 280 nm is calculated by measuring the observed absorbance at 280 nm and subtracting the absorbance at 493 nm multiplied by a correction factor of 0.11; $A_{280\text{actual}} = A_{280\text{observed}} - (A_{493} \times 0.11)$. Store at 4°C for up to 5 days or -20°C for up to 6 months protected from light. **Aliquoting is recommended to avoid repeated freeze-thaw cycles.** Store in dark tubes, and perform experiments protected from light.

All 5X buffers should be diluted to 1X with ultrapure water. For instance, to make 250 mL, add 50 mL of any 5X buffer to 200 mL water and mix by inversion. All buffers may be stored at 4 to 25°C.

Western Blotting Guide

Use 0.5 - 1.0 µg fetuin and/or RNase B as positive control.

Prepare 1X TBS (25 mM Tris-HCl, 2.7 mM KCl, 137 mM NaCl, pH 7.4) from the 5X Tris Buffered Saline (Cat #BA0104).

Prepare TBS plus 0.1% Tween-20 (TBST) for membrane washing.

Prepare TBST with 5% globulin-free BSA for blocking. Incubate the membrane at room temperature for 1 h with agitation.

Prepare 1 µg/mL **N-GlyFind™ GST SureLight® 488** (NP0202F) in TBST with 2% globulin-free BSA.

Incubate membrane in the probe solution at room temperature for 1 h with agitation protected from light. Rinse membrane 3 X 5 min with TBST.

Rinse membrane 3 X 5 min with TBS. Detect fluorescence using an appropriate imaging system.