

For research use only

# ProteoGreen™ -gGlu

Table 1. Product information

Code	Product Name	Amount	Storage upon receipt	Stability
GC801	ProteoGreen™-gGlu	20 μg × 10	Store under -20 °C, keep desiccated and protect from light. Unrecommend storing DMSO solution of dye	1 year (unopened)

## 1. Introduction

### ■ About *ProteoGreen™-gGlu*

*ProteoGreen™-gGlu* is cancer-selective fluorescent imaging probe. This probe is rapidly activated by GGT ( $\gamma$ -glutamyltranspeptidase), which is known to be tumor-associated enzyme, to give highly fluorescent compound. The membrane-permeable *ProteoGreen™-gGlu* is applicable to live cell or in vivo imaging of cancer cells.

## 2. Example of live cell imaging

### ■ Materials Required but not Provided

- Dimethylsulfoxide (DMSO), dehydrated
- HBSS
- Medium

### ■ Procedure

- ① Dissolve *ProteoGreen™-gGlu* in 29.7 μL of DMSO to prepare 1 mM stock solution..
- ② Dilute the DMSO stock solution with HBSS to 1-2 μM cell stain solution.
- ③ Remove the culture medium from cell culture dish and wash twice with medium.

Caution : Glass bottom dish etc. are recommended as cell culture dish, because it shows a low autofluorescence.

- ④ Add stain solution to the dish and incubate for 1 h at 37 °C, 5% CO<sub>2</sub>.

Even though the degree of stained cells is varied with cell type or growth condition, usually cells are well stained around 30 min.

- ⑥ After staining, wash 2-3 times with HBSS buffer. Replace to HBSS buffer and observe the cells using a fluorescence microscopy.

### ■ Fluorescent observation

488 nm is suited for excitation wavelength. GFP-LP (Nikon Co. Ltd.), U-MWB2 (Olympus Co. Ltd. ) etc. are usable. The wavelength of maximum emission is around 520 nm.

### ■ Storage

Probes are forwarded under conditions of N<sub>2</sub> atmosphere, dry and frozen state. After receipting, store under -20 °C, keep desiccated and protect from light. We recommend using up DMSO solution of dye.