# Glycoproteomic probes for fluorescent imaging of fucosylated glycans in vivo

本院覽號

公告日期

28A-960213

#### 智財權狀態

美國臨時案已申請、美國7,910,319已獲證、美國 8,329,413已獲證

# 技術優勢

Powerful technique for visualizing the intracellular localization of fucosylated glycoconjuates by fluorescent microscopy

#### 應用範圍

Glycoprotein imaging Glycoprotein purification Identification of key biomarkers Cancer Research Diagnosis of Disease

### 摘要

The invention provides a method of labeling of cellular glycans bearing azide group via a fluorescent labeling technique. The method entails generating fluorescent probe form a nonfluorescent precursor, 4-ethynyl-N-ethyl-1,8-naphthalimide, by Cu(I)-catalyzed [3+2] cycloaddition (click activation) of alkyne group of the probe with an azido-containing fucose analog into glycoprotein via the fucose salvage pathway. Cells treated with 6-azidofucose are labeled with the click activated fluorogenic probe or biotinylated alkyne.

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