



# OpeRATOR®

Lyophilized

STORE AT

**-20°C**



FOR RESEARCH USE ONLY

## Instructions for Use

**OpeRATOR® Lyophilized 2000 units (G2-OP1-020)**  
Process 2 mg O-glycoprotein





## Preparations

### Additional Materials Required

- Reaction buffer: 20mM Tris, pH 6.8.<sup>2</sup>

2. OpeRATOR has optimal activity in pH 5.5-7.5.

## O-glycan-specific Protein Digestion

### Sample Preparation

Prepare the glycoprotein in the reaction buffer to a concentration of 0.1-2 mg/ml.

#### 1. Prepare OpeRATOR and SialEXO

1.1 Reconstitute OpeRATOR and SialEXO in 50  $\mu$ l ddH<sub>2</sub>O each, to a concentration of 40 units/ $\mu$ l.

#### 2. Add SialEXO

2.1 Add 1 unit SialEXO / 1  $\mu$ g glycoprotein.<sup>3</sup>

#### 3. Add OpeRATOR

3.1 Add 1 unit OpeRATOR / 1  $\mu$ g glycoprotein.<sup>3</sup>

#### 4. Enzymatic Reaction

4.1 Incubate for 2 h to overnight (16-18h) at 37°C.

Note: The activity of the OpeRATOR enzyme is significantly reduced if sialic acids are present.<sup>1</sup>

3. A higher enzyme concentration may increase digestion efficiency of individual glycoproteins. This requires optimization.



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