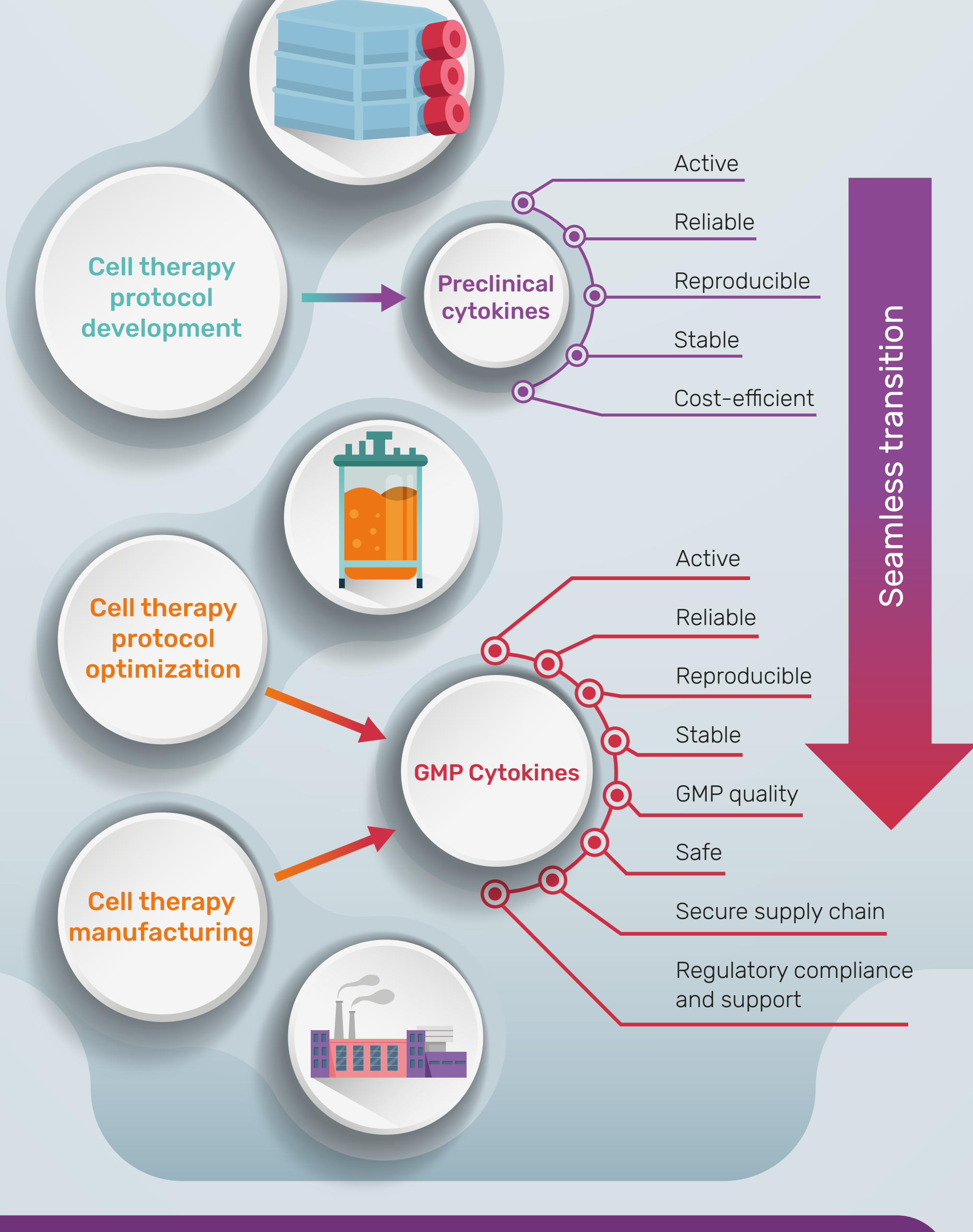


# Cytokines for cell & gene therapy

from research to commercialization

## How to select the right cytokines for each stage of your cell therapy development and manufacturing process



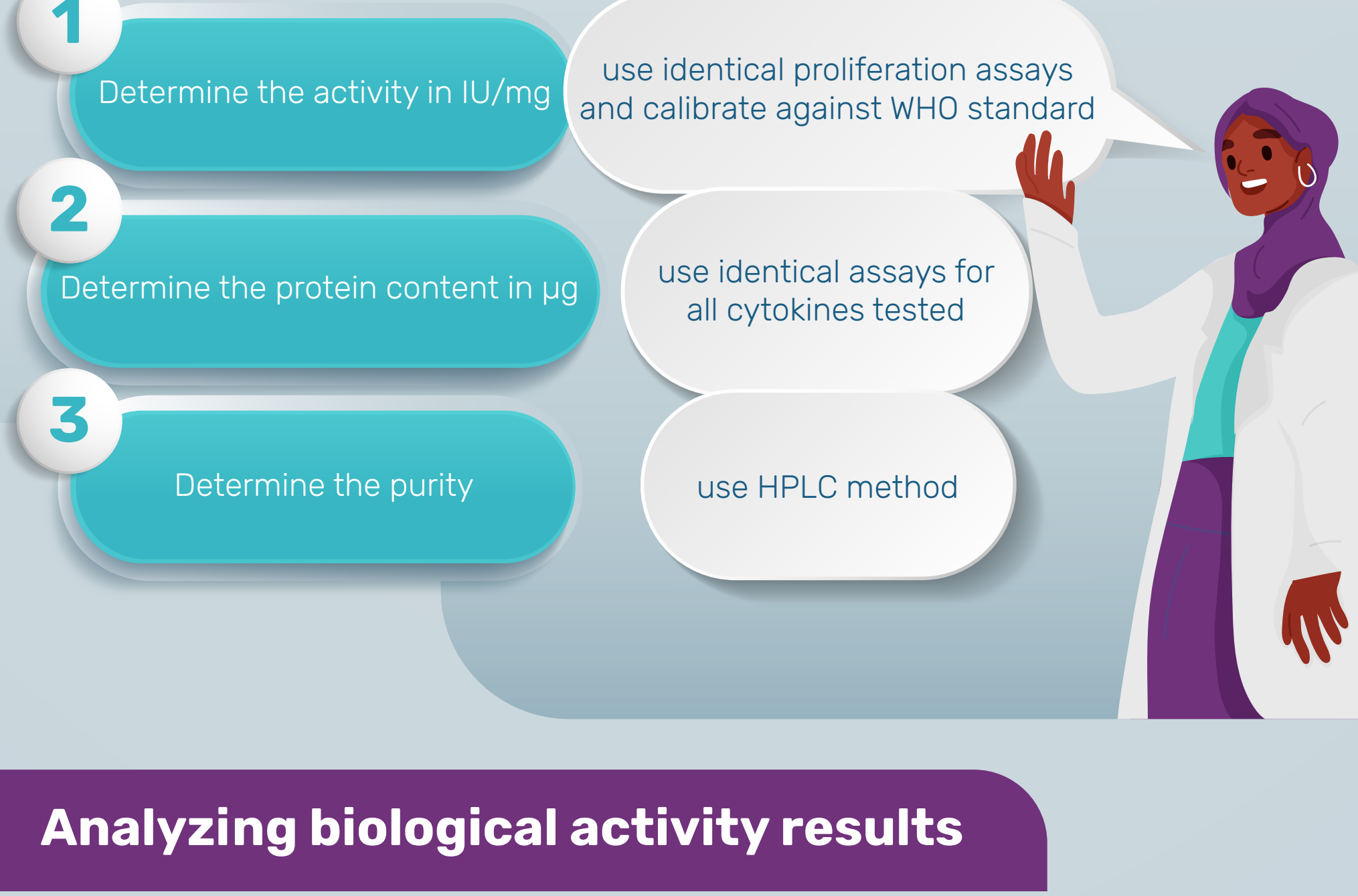
## How to measure and compare cytokine activity

It is critical to quantify and understand cytokine activity and its effect on different cell types. Here are some top tips for demonstrating reproducibility and comparability.

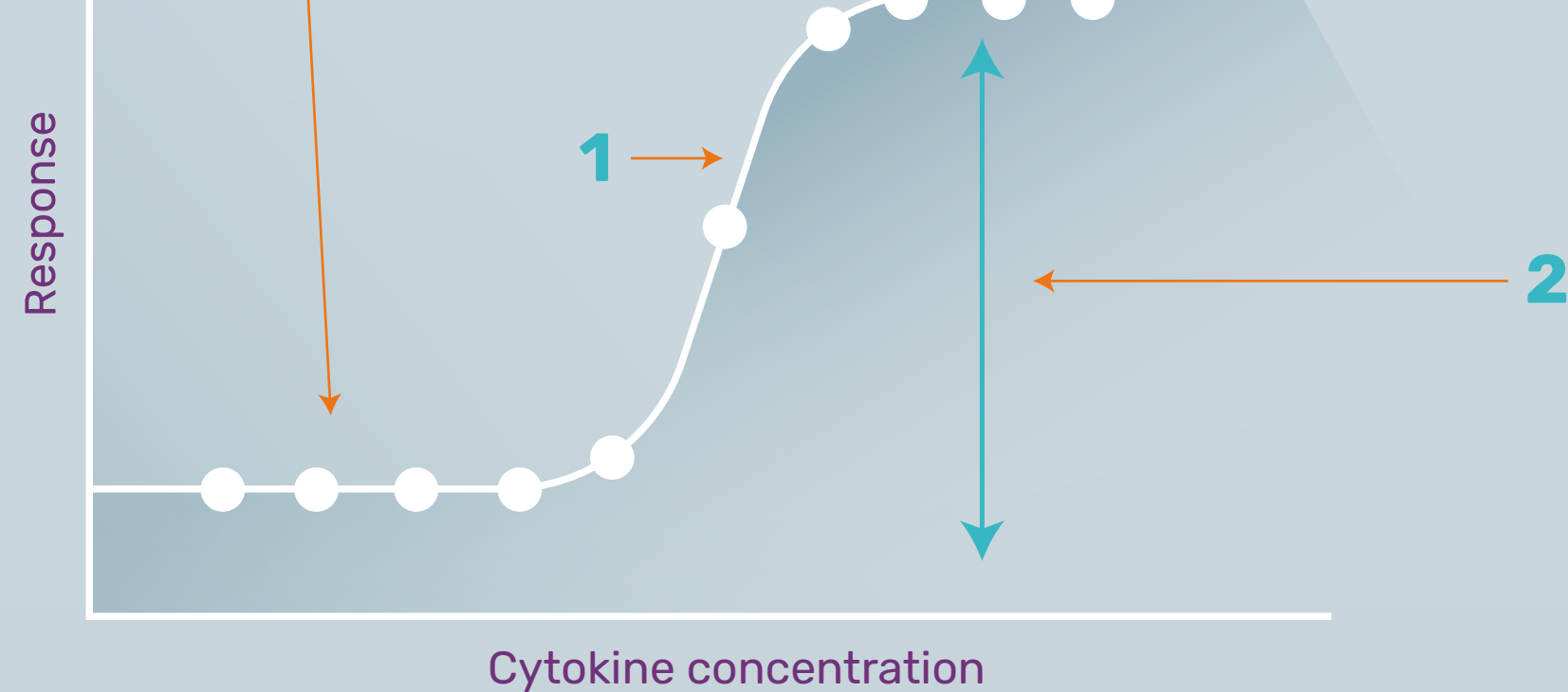
## Setting up your cell proliferation assay



## Three steps for comparative side-by-side testing

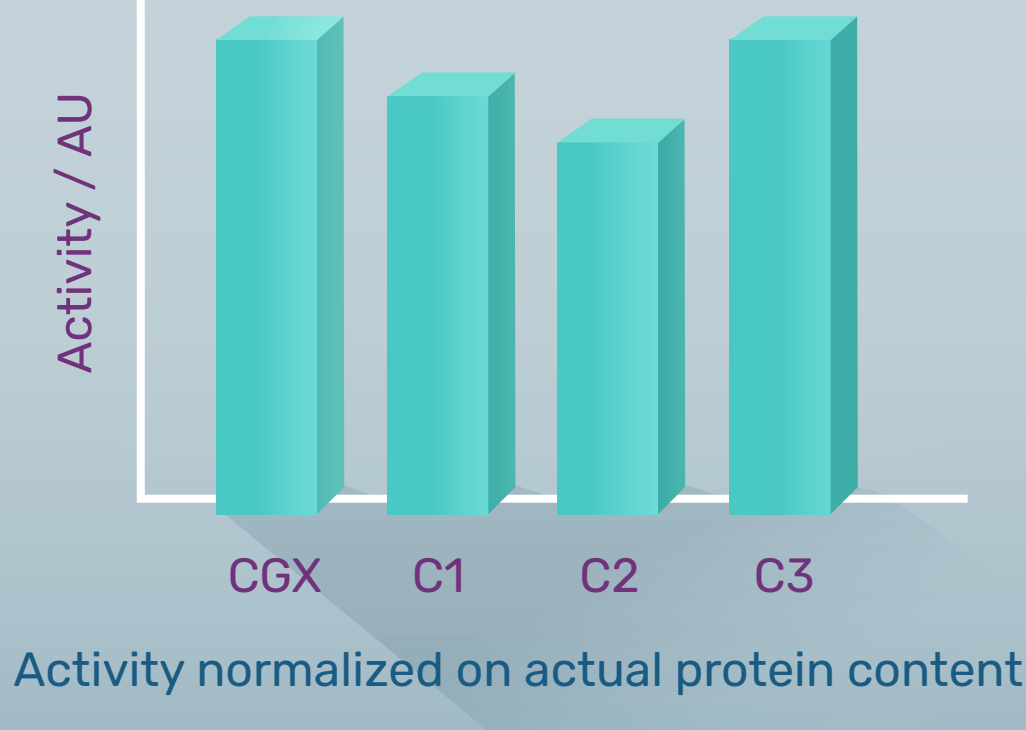
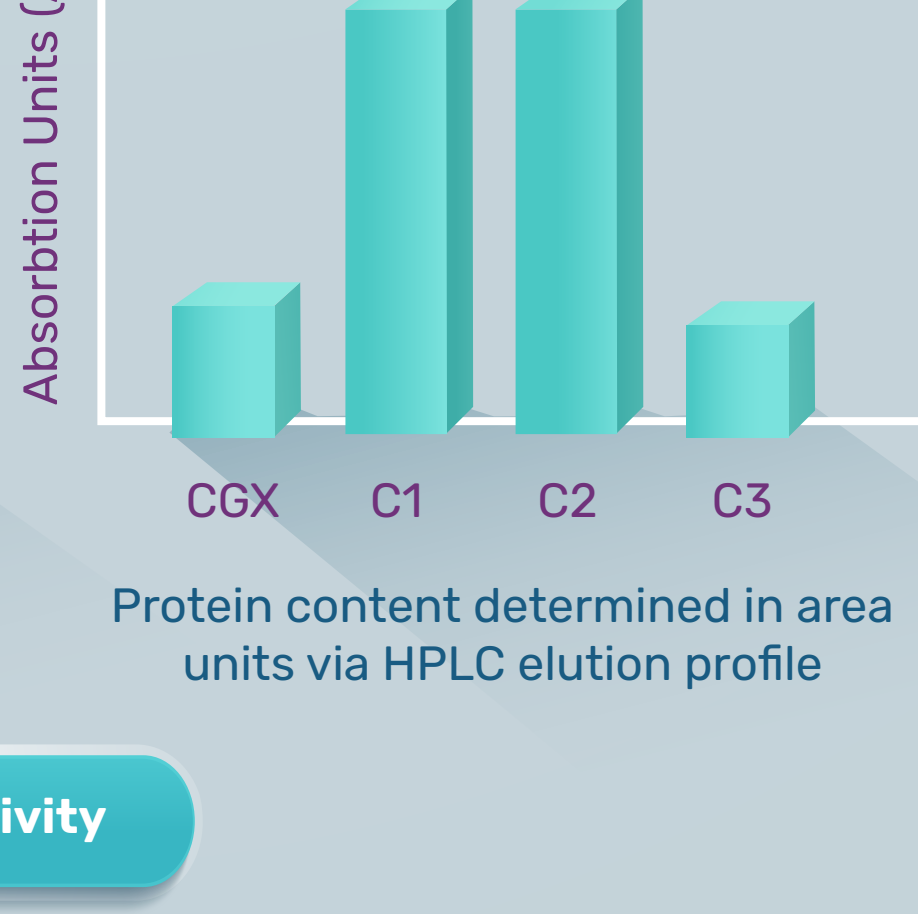
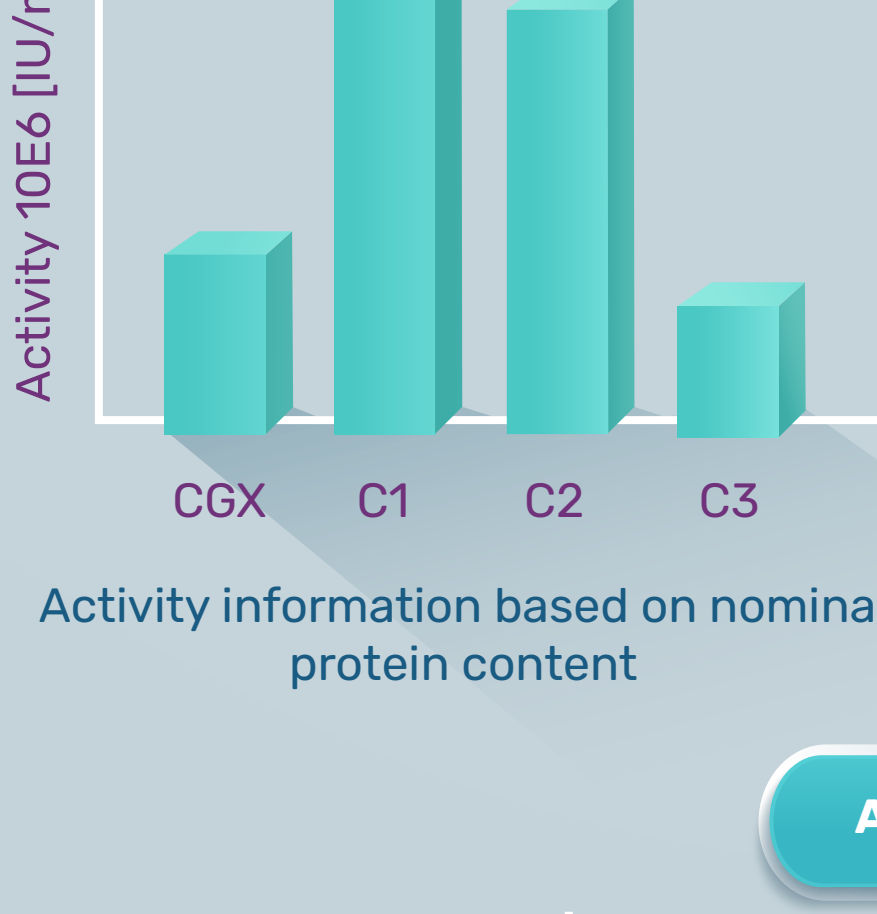


## Analyzing biological activity results



- 1** The steeper the curve the higher the activity
- 2** A larger distance between the minimum and maximum response indicates that the cells react well to the added cytokine
- 3** These sections should be horizontal, if not the assay is disturbed

Cytokine activity is dependent on protein content. These graphs show the activity of CellGenix® rh IL-15 (CGX) compared to different providers (C1-C3) based on nominal protein content vs actual protein content.



[Click here](#) to find out more about CellGenix® cytokines.