

CytoGrow™ Recombinant IL-4 (Human)

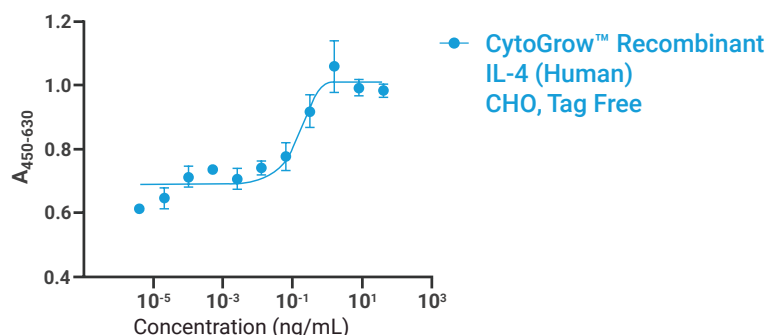
Catalog Numbers: CG040-A, CG040-B, CG040-C

Revision 1.0

Specifications

Synonym	
Species	Human
Size	10µg/50µg/1mg
Tag	Tag Free
Purity	≥ 95%
Endotoxin	≤10 EU/mg by the LAL method
Expression System	CHO
Expression Region	His25-Ser153
pH	7.0-8.0
Appearance	White powder, Colorless clear liquid after reconstitution
Formulation	Lyophilized from a 0.22 µm-filtered solution containing PBS, 5% mannitol and 0.01% Tween 80, pH 7.4
Shipping	US - Ships overnight
Reconstitution	Recommended to redissolve in sterile deionized water.
Storage and Stability	Lyophilized state: 36 months at -20°C to -80°C After reconstitution and under sterile conditions. 6 months at -20°C to -80°C 7-10 days at 2°C to 8°C Store in a manual defrost freezer and avoid repeated freeze-thaw cycles.

Bioactivity



Biological activity is assessed based on the stimulation of TF-1 cell proliferation, demonstrating high consistency across different production batches. The expected ED₅₀ is less than or equal to 0.2 ng/mL.

Reconstitution

1. Reconstitute protein to concentrations of 100 µg/mL or higher.
2. Use sterile deionized water to solubilize the lyophilized protein.
3. Gently tap glass vial to help collect the powder to the bottom.
4. Add desired amount of buffer, observe after 2 min. Gentle agitation by hand may be required.
5. Prepare aliquots of solution. Freeze at -20°C to -80°C to avoid repeated freeze thaw cycles.