

CytoGrow™ Recombinant BMP-7 (Human)

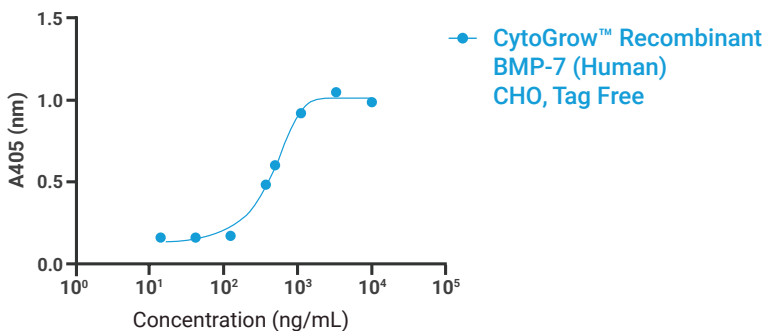
Catalog Numbers: CG007-A, CG007-B, CG007-C

Revision 1.0

Specifications

Synonym	Bone morphogenetic protein 7; BMP-7; Osteogenic protein 1 (OP-1); Eptotermin alfa; BMP7; OP1
Species	Human
Size	10µg/50µg/1mg
Tag	Tag free
Purity	≥ 95%
Endotoxin	≤10 EU/mg by the LAL method
Expression System	CHO
Expression Region	Met316-His431
pH	7.0-8.0
Appearance	White powder, Colorless clear liquid after reconstitution
Formulation	Lyophilized from a 0.22 µm-filtered solution containing 0.085% TFA, 30% ACN, 5% mannitol
Shipping	US - Ships overnight
Reconstitution	Recommended to redissolve in 4 mM HCl.
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 induction of alkaline phosphatase production in ATDC-5 cells. The expected ED₅₀ is between 0.02–0.04 µg/mL.

Reconstitution

1. Reconstitute protein to concentrations of 100 µg/mL or higher.
2. Use sterile 4mM HCl 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.