

**GLP-1, Human recombinant protein**  
**Glucagon-Like Peptide 1**  
**Catalog # PBV11398r****Specification**

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**GLP-1, Human recombinant protein - Product info**

Primary Accession [POC6A0](#)  
Calculated MW **3.3 kDa** **KDa**

**GLP-1, Human recombinant protein - Additional Info**

Gene ID	<b>100125288</b>
Gene Symbol	<b>GLP1</b>
<b>Other Names</b>	
Glucagon-Like Peptide 1	
Gene Source	<b>Human</b>
Source	<b>E. coli</b>
Assay&Purity	<b>SDS-PAGE; ≥98%</b>
Assay2&Purity2	<b>N/A;</b>
Recombinant	<b>Yes</b>
Sequence	<b>HAEGTFTSDV SSYLEGQAAK EFIAWLVKGR G</b>
<b>Target/Specificity</b>	
GLP-1	

**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

**Format**

Lyophilized

**Storage**

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.

**GLP-1, Human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

### **GLP-1, Human recombinant protein - Images**

### **GLP-1, Human recombinant protein - Background**

GLP-1 is a proglucagon-derived peptide hormone secreted primarily by intestinal L cells during feeding. Its major physiological function is stimulation of pancreatic  $\beta$ -cells to release appropriate amounts of insulin after glucose absorption. Other biological actions exhibited by GLP-1 include suppression of plasma glucagons levels, inhibition of gastric motility, and promotion of satiety. The secretion of GLP-1 from intestinal L cells is stimulated by nutrients, hormones, and neural inputs. On the other hand, insulin has been reported to inhibit GLP-1 release, indicating that a feedback loop mechanism regulates GLP-1 secretion. In addition to being the precursor of GLP-1, proglucagon, whose primary structure is highly conserved in mammalian species, is also the precursor for other members of the glucagon family of peptide hormones including glicentin-related pancreatic peptide (GRPP), glucagons, and GLP-2. Recombinant human GLP-1 is a 3.3 kDa protein consisting of 31 amino acid residues.

### **GLP-1, Human recombinant protein - References**

Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Grimwood J.,et al.Nature 428:529-535(2004).