

Glucokinase, human pancreatic, recombinant protein
Catalog # PBV11347r**Specification**

Glucokinase, human pancreatic, recombinant protein - Product info

Primary Accession	P35557
Concentration	39.3
Calculated MW	53.1 kDa KDa

Glucokinase, human pancreatic, recombinant protein - Additional Info

Gene ID	2645
Gene Symbol	GCK
Other Names	
Glucokinase, Hexokinase type IV, HK IV, Hexokinase-4, HK4, Hexokinase-D	

Gene Source	Human pancreas
Source	E.coli
Assay&Purity	SDS-PAGE; ≥80%
Assay2&Purity2	HPLC;
Recombinant	Yes
Format	
Liquid	

Storage

-80°C; 50 mM potassium phosphate pH 7.4, 50 mM sodium chloride, 0.5 mM DTT, 0.5 mM EDTA, and 2.5% glycerol.

Glucokinase, human pancreatic, 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](#)

Glucokinase, human pancreatic, recombinant protein - Images**Glucokinase, human pancreatic, recombinant protein - Background**

Glucose is phosphorylated to glucose-6-phosphate by glucokinases. This gene is alternatively spliced to generate three different forms of the enzyme; one found in the pancreas and two found in the liver. The main function of this gene is to regulate carbohydrate metabolism. Recombinant human pancreatic Glucokinase (Accession# NP_000153)) has a C-terminal FLAG tag and has 470

amino acid residues. It can be useful for studies including enzyme kinetics, activator screening and kinase selectivity.

Glucokinase, human pancreatic, recombinant protein - References

- Tanizawa Y.,et al.Mol. Endocrinol. 6:1070-1081(1992).
Tanizawa Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:7294-7297(1991).
Nishi S.,et al.Diabetologia 35:743-747(1992).
Koranyi L.I.,et al.Diabetes 41:807-811(1992).
Stoffel M.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:7698-7702(1992).