

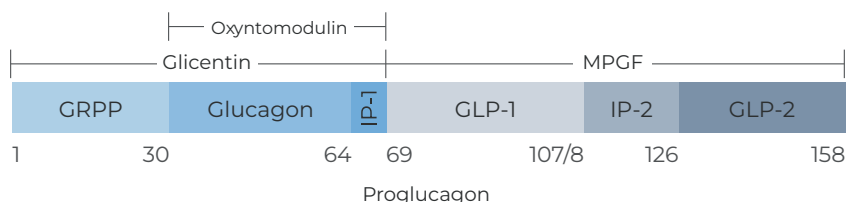
Proglucagon

Enzyme-Linked Immunoassay Kit



Introduction: Proglucagon, a 158 amino acid polypeptide, is synthesized in the pancreatic alpha cells and the intestinal L-cells. Its post-translational processing in the pancreas leads to GRPP, Glucagon, IP-1 and MPGF.

While in the intestines, the post-translational process leads to Glicentin, Oxyntomodulin, GLP-1, IP-2 and GLP-2. Analogs and agonists of these proglucagon factors are used in the treatment and management of Type-1 and Type-2 diabetes and prevention of cardiovascular complications associated with diabetes.



ANSH LABS ADVANTAGES

Accurate

Plasma samples at a low and high Proglucagon levels were mixed at different levels and the % recovery was calculated.

Sample	Endogenous Conc. (pg/mL)	Expected Conc. (pg/mL)	Observed Conc. (pg/mL)	% Recovery
1	20.0	22.2	2.001	96
		34.3	2.499	
		26.4	3.016	
2	22.9	24.9	1.510	98
		26.9	2.049	
		28.9	2.621	
3	19.0	21.2	1.360	96
		23.4	1.951	
		25.6	2.460	

Specific

The antibody pair used in the Proglucagon ELISA measures proglucagon and does not detect other similar molecules. The assay does not detect Glucagon, GLP-1, GLP-2, Oxyntomodulin, GRPP, MPGF-1, MPGF-2, Insulin, C-peptide, and Thyroglobulin.

- Analytical measurable range of approximately 6.48-913 pg/mL**
Wide dynamic range for detection of Proglucagon studies of a variety of physiological states.
- Specific to Proglucagon**
Does not show any cross-reactivity to Glucagon, GLP-1, GLP-2, Oxyntomodulin, GRPP, MPGF-1, MPGF-2, Insulin, C-Peptide, and Thyroglobulin.
- Sensitive to 1.14 pg/mL**
- Kit includes all reagents needed to run a 96-well plate, shipped at ambient temperatures and stored at 2-8°C**
No need to buy or make additional reagents.
- Long shelf-life**
24 months from the date of manufacture; minimizing assay lot changes for long term studies.

Sample Name	Concentration	% Cross-reactivity
Glucagon	100 ng/mL	ND
GLP-1	100 ng/mL	ND
GLP-2	100 ng/mL	ND
Oxyntomodulin	50 ng/mL	ND
GRPP	100 ng/mL	ND
MPGF-1	100 ng/mL	ND
MPGF-2	100 ng/mL	ND
Insulin	100 ng/mL	ND
C-Peptide	100 ng/mL	ND
Thyroglobulin	100 ng/mL	ND

Proglucagon

Product Listing

Proglucagon is a useful research tool for studies related to:

- Ovarian Cancer
- Acute respiratory failure
- Wound healing
- Management of T1DM and T2DM
- Immune response
- Diabetes-related cardiovascular complications
- CNS development
- Bone morphogenesis
- Granulosa cell tumors

ELISA 96 Wells

Method	Quantitative 3-step sandwich type immunoassay
Incubation Time	Total 2.5 hour incubation at room temperature
Approximate Dynamic Range	6 points, 6.48-913 pg/mL
Sensitivity	1.14 pg/mL
Sample Size / Type	25 µL / Plasma
Shelf-life	24 months
Catalog Number	AL-1019

96-Well ELISA

Related Assays

GLP-1	96-Well ELISA	AL-172
GLP-2	96-Well ELISA	AL-174
Glucagon	96-Well ELISA	AL-157 [FDA, CE]
	96-Well ELISA	AL-151
	96-Well ELISA	AL-139
Glicentin	96-Well ELISA	AL-185

*Unless otherwise stated here, in our catalog, or other product documentation, these kits are intended for research use only and not for in vitro diagnostic purposes or therapeutic uses.

POS.1019.1224.USINTL

Reproductive Function

Activin A [CE]
Activin B
Activin AB
AFP
AMH [CE]
AMH, Dried Blood Spot [CE]
AMH (PCOCheck™) [CE]
picoAMH (MenoCheck®) [FDA, CE]
BMP-15
Estriol [FDA, CE]
Follistatin
Follistatin Like-3
FSH
FSH, Dried Blood Spot
GDF-9
GDF-9/BMP-15 Complex
GDF-15, Total
GDF-15, H-Specific
Inhibin, Total
Inhibin A [FDA, CE]
picoInhibin A
Inhibin A (OMQCheck™)
Inhibin B [CE]
Inhibin B, Ultra-Sensitive [CE]
LH
LH, Dried Blood Spot
PAPP-A [CE]
PAPP-A2 [CE]
picoPAPP-A [CE]
PLGF [CE]
Prolactin [FDA, CE]
Prolactin, Dried Blood Spot [CE]

Specialty Controls

AnshCheck AMH Tri-Level Controls [FDA, CE]
AnshCheck Inhibin B Tri-Level Controls
AnshCheck Maternal Screening Bi-Level Controls [FDA, CE]

Metabolism

C-Peptide of Insulin
GIP, Intact
GIP, Total
Glicentin
GLP-1
GLP-2
Glucagon [FDA, CE]
Major Proglucagon Fragment
Oxyntomodulin
Proglucagon

Growth Factors

IGF-I, Free
IGF-I, Total [FDA, CE]
IGF-II
IGFBP-2
IGFBP-3, Intact
IGFBP-3, Total
IGFBP-4, Intact
IGFBP-4, Total
IGFBP-5
picolL-6
Stanniocalcin 2

Species Specific Assays

Activin B: Mouse, Rat
AMH: Bovine, Canine, Equine, Feline, Mouse, Ovine, Porcine, Primate, Rat
GDF-15: Bovine
IGF-I, Free: Mouse, Rat
IGF-I, Total: Mouse, Rat
IGFBP-4, Intact : Mouse, Rat
IGFBP-4, Total: Mouse, Rat
Inhibin A: Canine, Equine, Rodent
Inhibin B: Canine, Equine, Mouse
Oxyntomodulin: Mouse, Rat
PAPP-A: Mouse

Neuronal Disorders

MBP

**Unless stated otherwise, products are for research use only.

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ISO 13485:2016

Ansh Labs is ISO certified for the design, development, manufacturing, services and distribution of reagents/ immunoassay kits for research and in vitro diagnostic applications.