

Hormones.

Hormones are the chemical substances secreted by ductless glands, which influence and control biological reactions. Some important hormones along with their source and function are being given below.

Hormone	Source	Functions
Steroid hormones		
Testosterone (Androgens)	Testis	Regulates development of reproductive male organs.
Estrogene and progesterons	Ovary (Uterus)	Female sex hormones: control normal functioning of female sex organs.
Cortisone and related hormones	Adrenal cortex	Regulates the metabolism of fats, proteins, carbohydrates and mineral salts.
Amine hormones		
Adrenalino (Epinephrine)	Adrenal medulla	Increase the pulse rate and blood pressure: reduces glucose from glycogen and fatty acids from fats.
Thyroxine	Thyroid	Stimulates rate of oxidative metabolism and regulates general growth and development.
Peptide hormones		
Oxytocino	Posterior pituitary	Causes contraction of some smooth muscle. Also causes contraction of uterus during child birth.
Vasopressin	Posterior pituitary	Inhibits excretion of water from the body by way of urine.
Insulin	Pancreas	Decrease blood glucose level.
Glucogen	Pancreas	Elevates blood glucose level.

Product	Applications
Human insulin hormone	Treatment of diabetes
Interferon	Antiviral agent
Growth hormones	Treatment of abnormal growth related diseases
Tissue plasminogen factor	Dissolving unwanted blood clots
Blood clotting factor VIII	Treatment of haemophilias
Vaccines	Against various infective diseases