

## Recombinant rat Insulin-like growth factor I

Catalog No: #AP71981



Package Size: #AP71981-1 20ug #AP71981-2 100ug #AP71981-3 1mg

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## Description

Product Name	Recombinant rat Insulin-like growth factor I
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:49-118Sequence Info:Full Length
Other Names	Somatomedin
Accession No.	P08025
Uniprot	P08025
GeneID	24482;
Calculated MW	34.7 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	GPETLCGAELVDALQFVCGPRGFYFNKPTGYGSSIRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPTKSA
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity. May be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates glucose transport in rat bone-derived osteoblastic (PyMS) cells and is effective at much lower concentrations than insulin, not only regarding glycogen and DNA synthesis but also with regard to enhancing glucose uptake. May play a role in synapse maturation .

## References

Primary structure of rat insulin-like growth factor-I and its biological activities.Tamura K., Kobayashi M., Ishii Y., Tamura T., Hashimoto K., Nakamura S., Niwa M., Zapf J.J. Biol. Chem. 264:5616-5621(1989)Research Topic:Signal Transduction

Note: This product is for in vitro research use only