

Recombinant Human Growth,differentiation factor 9(GDF9)

Catalog No: #AP70329

Package Size: #AP70329-1 20ug #AP70329-2 100ug #AP70329-3 1mg

Description

Product Name	Recombinant Human Growth,differentiation factor 9(GDF9)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:320-454aaSequence Info:Full Length
Accession No.	O60383
Calculated MW	42.5 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	GQETVSSELKKPLGPASFNLSEYFRQFLLPQNECELHDFRLSFSQLKWDNWIVAPHRYNPRYCKGDCPRAVG HRYGSPVHTMVQNIIEKLDSSVPRPSCVPAKYSPLSVLTIEPDGSIAYKEYEDMIATKCTCR
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

Required for ovarian folliculogenesis. Promotes primordial follicle development. Stimulates granulosa cell proliferation. Promotes cell transition from G0,G1 to S and G2,M phases, through an increase of CCND1 and CCNE1 expression, and RB1 phosphorylation. It regulates STAR expression and cAMP-dependent progesterone release in granulosa and thecal cells. Attenuates the suppressive effects of activin A on STAR expression and progesterone production by increasing the expression of inhibin B. It suppresses FST and FSTL3 production in granulosa-lutein cells.

References

Mutational screening of the coding region of growth differentiation factor 9 gene in Indian women with ovarian failure.Dixit H., Rao L.K., Padmalatha V., Kanakavalli M., Deenadayal M., Gupta N., Chakravarty B., Singh L.Menopause 12:749-754(2005) Research Topic:Cardiovascular

Note: This product is for in vitro research use only and is not intended for use in humans or animals.