

## Recombinant human Midkine

Catalog No: #AP72116



Package Size: #AP72116-1 20ug #AP72116-2 100ug #AP72116-3 1mg

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## Description

Product Name	Recombinant human Midkine
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:21-143aaSequence Info:Full Length
Other Names	Amphiregulin-associated protein ;ARAPMidgestation and kidney proteinNeurite outgrowth-promoting factor 2Neurite outgrowth-promoting protein
Accession No.	P21741
Uniprot	P21741
GeneID	4192;
Calculated MW	40.4 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	VAKKKDKVKKGGPGSECAEWAWGPCTPSSKDCGVGFREGTCGAQTQRIRCRVPCNWKKEFGADCKYKFEN WGACDGGTGTKVRQGLTKKARYNAQCQETIRVTKPCTPKTKAKAKAKKGGKGD
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

Developmentally regulated, secreted growth factor homologous to pleiotrophin (PTN), which has heparin binding activity. Binds anaplastic lymphoma kinase (ALK) which induces ALK activation and subsequent phosphorylation of the insulin receptor substrate (IRS1), followed by the activation of mitogen-activated protein kinase (MAPK) and PI3-kinase, and the induction of cell proliferation. Involved in neointima formation after arterial injury, possibly by mediating leukocyte recruitment. Also involved in early fetal adrenal gland development .

## References

Abnormal expression, highly efficient detection and novel truncations of midkine in human tumors, cancers and cell lines.Tao P., Xu D., Lin S., Ouyang G.L., Chang Y., Chen Q., Yuan Y., Zhuo X., Luo Q., Li J., Li B., Ruan L., Li Q., Li Z.Cancer Lett. 253:60-67(2007)Research Topic:Developmental Biology

Note: This product is for in vitro research use only