

Recombinant Human Hyaluronidase PH-20(SPAM1)

Catalog No: #AP70801

Package Size: #AP70801-1 20ug #AP70801-2 100ug #AP70801-3 1mg

Description

Product Name	Recombinant Human Hyaluronidase PH-20(SPAM1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:36-490aaSequence Info:Full Length
Other Names	Hyaluronoglucosaminidase PH-20Sperm adhesion molecule 1Sperm surface protein PH-20
Accession No.	P38567
Calculated MW	67.9 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	LNFRAPPVIPNPFLWAWNAPSEFCLGKFDEPLDMSLFSFIGSPRINATGQGVITIFYVDRLGYYPYIDSITGVTV NGGIPQKISLQDHLDAKAKDITFYMPVDNLGMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQQQNVQLSLT EATEKAKQEFKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYKKPGYNGSCFNVEIKRNDLWSLWN ESTALYPSIYLNTQQSPVAATLYVRNRVREAIRVSKIPDAKSPLPVFAYTRIVFTDQVLKFLSQDELVYTFGETVA LGASGIVIWGTLSIMRSMKSCLLLDNYMETILNPYIINVTLAAKMCSQVLCQEQQVCIRKNWNSSDYHLNPDN FAIQLEKGGKFTVRGKPTLEDLEQFSEKFCSCYSTLSCKEKADVKDTPDAVDVCIADGVCIDAFKPPMETEETP QIFYNASPSTLS
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

Involved in sperm-egg adhesion. Upon fertilization sperm must first penetrate a layer of cumulus cells that surrounds the egg before reaching the zona pellucida. The cumulus cells are bedded in a matrix containing hyaluronic acid which is formed prior to ovulation. This protein aids in penetrating the layer of cumulus cells by digesting hyaluronic acid.

References

Exome sequencing identifies frequent mutation of the SWI,SNF complex gene PBRM1 in renal carcinoma.Varela I., Tarpey P., Raine K., Huang D., Ong C.K., Stephens P., Davies H., Jones D., Lin M.L., Teague J., Bignell G., Butler A., Cho J., Dalglish G.L., Galappaththige D., Greenman C., Hardy C., Jia M. , Latimer C., Lau K.W., Marshall J., McLaren S., Menzies A., Mudie L., Stebbings L., Largaespada D.A., Wessels L.F.A., Richard S., Kahnoski R.J., Anema J., Tuveson D.A., Perez-Mancera P.A., Mustonen V., Fischer A., Adams D.J., Rust A., Chan-On W., Subimerb C., Dykema K., Furge K., Campbell P.J., Teh B.T., Stratton M.R., Futreal P.A.Nature 469:539-542(2011) Research Topic:Cancer

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