Hydroxyproline Assay Kit

PRODUCT OVERVIEW

Product Name	Hydroxyproline, Assay Kit
Full Product Name	Hydroxyproline assay kit (Alkali hydrolysis method)
Samples	Animal serum, plasma, tissue, urine and other samples.
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Hydroxyproline assay kit	Background/Introduction: Hydroxyproline accounts for 13.4% in collagen and very little in elastin, but cannot be found in other proteins. Collagen is mostly distributed in skin, tendon, cartilage, blood vessels, etc. So the amount of hydroxyproline can reflect the collage metabolism of the connective disease. The determination of hydroxyproline in skin is a screening index of anti-aging medicines. The excretion of hydroxyproline will increase with age in development stage, then keep stable after non-development. The hydroxyproline in elderly is less than in the young. When rats suffer from spontaneous hypertension and secondary hypertension, the content of hydroxyproline will increase in their urine. Surgical trauma will result in an increase of hydroxyproline in the urinary excretion. High lipid, low protein, alcoholic poisoning toxicant, malnutrition, or liver cell degeneration and necrosis will lead to the increase of fiber by inflammation which splits liver lobule, leading to cirrhosis of the liver. When the liver fibrosis, the collagen fibers are the mainly increasing composition in liver, which uniquely contains the hydroxyproline. The content of liver hydroxyproline can be converted to the content of the liver collagen, reflecting the degree of liver fibrosis. The decomposition of collagen fiber mainly depends on collagen enzyme and other protease. The hydroxyproline decomposed products will be excreted by the urine. The collagen degradation can be reflected by the content of urinary hydroxyproline. By determining the content of hydroxyproline in the tissue and urine, the degree of fibrosis can be judged, and the preventing and treating drugs can also be screened. This kit can be used to detect the content of hydroxyproline(HYP) in animal serum(plasma),tissue urine etc.
Other Notes	Small volumes of Hydroxyproline assay kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Hydroxyproline purchase	MBS2540442 is an assay kit targeting Hydroxyproline. Also known as Hydroxyproline assay kit (Alkali hydrolysis method).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Hydroxyproline. It may not necessarily be applicable to this product.

Protein Family	Hydroxyproline O-arabinosyltransferase
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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Online datasheet: https://www.mybiosource.com/assay-kits/hydroxyproline/2540442