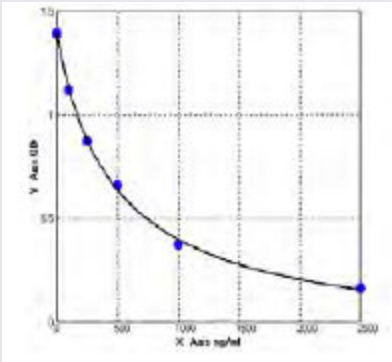
20s Proteasome (20SP) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	20S proteasome (20SP), ELISA Kit
Full Product Name	Human 20S proteasome ELISA Kit
Product Gene Name	20SP elisa kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	27,433 Da
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for 20SP elisa kit	Cell Biology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for 20SP elisa kit	Intended Uses: This 20S-PSM ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human 20S-PSM. This ELISA kit for research use only! Principle of the Assay: 20S-PSM ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-20S-PSM antibody and an 20S-PSM-HRP conjugate. The assay sample and buffer are incubated together with 20S-PSM-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the 20S-PSM concentration since 20S-PSM from samples and 20S-PSM-HRP conjugate compete for the anti-20S-PSM antibody binding site. Since the number of sites is limited, as more sites are occupied by 20S-PSM from the sample, fewer sites are left to bind 20S-PSM-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The 20S-PSM concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of 20SP elisa 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 20SP purchase	MBS725729 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the 20S proteasome (20SP) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing 20SP. The ELISA analytical biochemical technique of the MBS725729 kit is based on 20SP antibody-20SP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect 20SP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, 20SP. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of 20SP elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for 20SP. It may not necessarily be applicable to this product.

NCBI GI #	284096649
NCBI GeneID	8863741
NCBI Accession #	EFC50276.1
NCBI Official Full Name	20S proteasome
NCBI Official Symbol	NAEGRDRAFT_77167
UniProt Protein Name	Proteasome subunit beta type
Protein Family	Proteasome
UniProt Entry Name	D2UXF6_NAEGR
NCBI Protein Information	20S proteasome
UniProt Comments for 20SP	The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity.
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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