

## Mouse Heat Shock Protein 90kDa Alpha A1 (HSP90aA1) ELISA Kit-Sandwich

**Cat. No.:** EK6F885

**Product Type:** Animal Immunoassay Kits

**Size:** 48T;96T

### Product Overview

BioVenic Mouse Heat Shock Protein 90kDa Alpha A1 (HSP90aA1) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse HSP90aA1 in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

### Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Heat Shock Protein 90kDa Alpha A1 (HSP90aA1).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	1.57-100 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

### Target Information

Hsp90aa1 is a molecular chaperone that facilitates the maturation, structural maintenance, and proper regulation of specific target proteins, such as those involved in cell cycle control and signal transduction. Its function is closely tied to its ATPase activity, which is crucial for its chaperone role, likely inducing conformational changes in client proteins to activate them. Hsp90aa1 interacts with various co-chaperones that influence its substrate recognition, ATPase cycle, and overall chaperone function. In mice, HSP90AA1 is critical for the reproductive system. In the testis, its absence leads to impaired spermatogenesis, characterized by an arrest at the pachytene stage of meiosis. Additionally, loss of HSP90AA1 in mice results in immune system dysfunction, including abnormal development of T and B cells.

Target/Biomarker	Mouse HSP90aA1
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Target Synonym	HSP86; HSP90A; HSP90N; HSPC1; HSPCA; HSPCAL1; HSPCAL4; HSPN; Hsp89; Hsp90; LAP2; Lipopolysaccharide-associated protein 2; Renal carcinoma antigen NY-REN-38
Gene ID	<a href="#">15519</a>
UniProt ID	<a href="#">P07901</a>

## Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

## Reference

Maiti, Samarpan, and Didier Picard. "Cytosolic Hsp90 Isoform-Specific Functions and Clinical Significance." *Biomolecules* vol. 12,9 1166. 23 Aug. 2022.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.