

# Product Datasheet

## Tryptophan ELISA Kit (Colorimetric)

### KA1916

Unit Size: 1 Kit

Store at 4C.

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**KA1916****Tryptophan ELISA Kit (Colorimetric)**

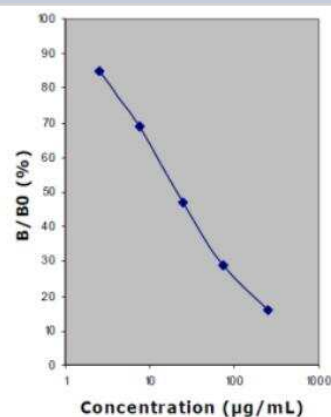
<b>Product Information</b>	
<b>Unit Size</b>	1 Kit
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Store at 4C.

<b>Product Description</b>	
<b>Description</b>	Tryptophan ELISA Kit is an enzyme immunoassay for the quantitative determination of tryptophan.
<b>Kit Components</b>	Adhesive Foil, Reaction Plate, Wash Buffer Concentrate (50x), Enzyme Conjugate, Substrate, Stop Solution, Tryptophan Microtiter Strips, Tryptophan Antiserum, Standard A*, Standard B*, Standard C*, Standard D*, Standard E*, Standard F*, Control 1*, Control 2*, Assay Buffer, Equalizing Reagent, Q-Buffer, PBS, D-Reagent, Precipitating Reagent
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Standard Curve Range</b>	0.73 to 250 ug/mL
<b>Sensitivity</b>	1.2 ug/mL
<b>Inter Assay</b>	CV% < 11.7%
<b>Intra Assay</b>	CV% < 11%
<b>Assay Type</b>	Quantification
<b>Spiking Recovery</b>	Urine: 106%, Serum: 95%
<b>Suitable Sample Type</b>	Plasma, Serum, Urine
<b>Sample Volume</b>	25 uL

<b>Product Application Details</b>	
<b>Applications</b>	ELISA, Quantification
<b>Recommended Dilutions</b>	ELISA, Quantification

**Images**

ELISA: Tryptophan ELISA Kit [HRP] [KA1916] - Typical calibration curve



## Publications

Chengcao Sun, Youqiong Ye, Zhi Tan, Yuan Liu, Yajuan Li, Wei Hu, Ke Liang, Sergey D. Egranov, Lisa Angela Huang, Zhao Zhang, Yaohua Zhang, Jun Yao, Tina K. Nguyen, Zilong Zhao, Andrew Wu, Jeffrey R. Marks, Abigail S. Caudle, Aysegul A. Sahin, Jianjun Gao, Seth T. Gammon, David Piwnica-Worms, Jian Hu, Paul J. Chiao, Dihua Yu, Mien-Chie Hung, Michael A. Curran, George A. Calin, Haoqiang Ying, Leng Han, Chunru Lin, Liuqing Yang Tumor-associated nonmyelinating Schwann cell-expressed PVT1 promotes pancreatic cancer kynurenine pathway and tumor immune exclusion *Science Advances* 2023-02-01 [PMID: 36724291]

Yuki T, Junko N, Dai H et al. CNS serotonin content mediating food deprivation-enhanced learning is regulated by hemolymph tryptophan concentration and autophagic flux in the pond snail. *Nutr Neurosci.* 2022-02-14 [PMID: 35156560]

Allison B, Lindsey R, Adam N et al. Tryptophan metabolism is dysregulated in individuals with Fanconi anemia. *Blood Adv.* 2021-01-12 [PMID: 33570643]

Sun L, Zhang Y, Yang T et al. IGFBP2 Drives Regulatory T Cell Differentiation through STAT3/IDO Signaling Pathway in Pancreatic Cancer *Journal of personalized medicine* 2022-12-03 [PMID: 36556226] (ELISA)

Details:

Tissue supernatants

Jiao H, Yan Z, Ma Q et al. Influence of Xiaoyaosan on depressive-like behaviors in chronic stress-depressed rats through regulating tryptophan metabolism in hippocampus. *Neuropsychiatr Dis Treat.* 2019-01-09 [PMID: 30587994]

Liu R, Merola J, Manes TD et al. Interferon-gamma converts human microvascular pericytes into negative regulators of alloimmunity through induction of indoleamine 2,3-dioxygenase 1. *JCI Insight.* 2018-03-08 [PMID: 29515027] (ELISA, Human)

Martin-Gronert MS, Stocker CJ, Wargent ET et al. 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptors as hypothalamic targets of developmental programming in male rats. *Dis Model Mech* 2016-01-14 [PMID: 26769798]





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. ELISA Kits are guaranteed for 6 months from date of receipt.

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