

Product Name: 3X (DYKDDDDK)
Peptide Revision Date: 09/03/2024

## **Product Data Sheet**

# 3X (DYKDDDDK) Peptide

Cat. No.: A6001

CAS No.: 402750-12-3

Formula: C120H169N31O49S

**M.Wt:** 2861.87

Synonyms: H-Met-Asp-Tyr-Lys-Asp-His-Asp-Gly-Asp-Tyr-

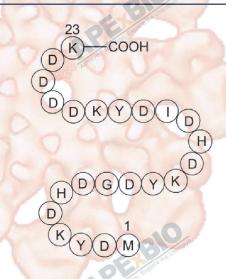
Lys-Asp-His-Asp-Ile-Asp-Tyr-Lys-Asp-Asp-As

p-Asp-Lys-OH

Target: Tag Peptides

Pathway:

Storage: Desiccate at -20°C



## Solvent & Solubility

≥25mg/ml in TBS (0.5M Tris-HCl, pH 7.4, with 1M NaCl), 1X TBS as recommended buffer.

In Vitro	Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
III VIIIO		1 mM	0.3494 mL	1.7471 mL	3.4942 mL
		5 mM	0.0699 mL	0.3 <mark>4</mark> 94 mL	0.6988 mL
		10 mM	0.0349 mL	0.1747 mL	0.3494 mL

Please refer to the solubility information to select the appropriate solvent.

# **Biological Activity**

Shortsummary	Synthetic peptide tag	_10,
IC <sub>50</sub> & Target	2 Octor	The state of the s
	Cell Viability Assay	All and the second of the seco
	Preparation method:	3-DYKDDDDK peptide has found widespread use as a mild purification reagent for
In Vitro	A Roll	DYKDDDDK-epitope tagged recombinant proteins. Although its affinity columns
III VILIO		release monovalent flagged proteins in the absence of calcium, the antibody retains
		substantial affinity for the DYKDDDDK sequence even in metal-free conditions, so that
		it has been impossible to use it to develop a metal-sensitive ELISA assay. This is

In Vivo	Applications:		
	Animal experiment	<u> Alego</u> Julio Jul	
	Applications:	The solubility of this peptide in sterile water is >10 mM. Stock solution should be splited and stored at -80°C for several months.	
	Application		
		was a significant finding.	
		of recombinant DYKDDDDK-fusion proteins, the ability to bind heavy metals	
		samarium. Because it is of interest to use this antibody for the co-crystallization	
		binding was demonstrated for heavy metals such as cadmium, lanthanum and	
		metals, such as nickel, acted as inhibitors of the binding reaction. Substantial	
		that of calcium, or with decreasing radius below that of calcium. Several smaller	
	Religion to the United States of the United States	detail. Among divalent metals, binding tapered off with increasing radius above	
		ELISA assay was used to explore the metal requirements of the antibody in	
		the ELISA reaction became calcium-dependent. This new metal-dependent	
		monovalent, by proteolytic cleavage to the Fab, this situation was reversed and	
		calcium-independent. However, when the antibody itself was made	
		DYKDDDDK antibody to a point where the reaction is essentially	
		blotting filters. The resultant antigen polyvalence raises the avidity of the	
		antigen, for instance, when Flagged proteins are bound to ELISA plates of	
		due to the ability of the antibody to remain bound to polyvalent surface-coated	

### **Product Citations**

- 1. Miller CJ, Lou HJ, et al. "Comprehensive profiling of the STE20 kinase family defines features essential for selective substrate targeting and signaling output." PLoS Biol. 2019 Mar 21;17(3):e2006540.PMID:30897078
- 2. Zhang M, Ergin V, et al. "Axonogenesis Is Coordinated by Neuron-Specific Alternative Splicing Programming and Splicing Regulator PTBP2."

Neuron. 2019 Feb 20;101(4):690-706.e10.PMID:30733148

- 3. Charles A Berdan, Raymond Ho, et al. "Parthenolide Covalently Targets and Inhibits Focal Adhesion Kinase in Breast Cancer Cells." bioRxiv. 2019 February 14.
- 4. Gomes ID, Pflum MKH. "Optimal substrate trapping mutants to discover substrates of HDAC1." Chembiochem. 2019 Jan 30 PMID:30701667
- 5. Liang Z, Liang F, et al. "Binding of FANCI-FANCD2 Complex to RNA and R-Loops Stimulates Robust FANCD2 Monoubiquitination." Cell Rep. 2019 Jan 15;26(3):564-572.e5.PMID:30650351

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#### References

1. Hopp TP1, Gallis B, Prickett KS. Metal-binding properties of a calcium-dependent monoclonal antibody. Mol Immunol. 1996 May-Jun;33(7-8):601-8.

#### Caution

#### FOR RESEARCH PURPOSES ONLY.

#### NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

### **APExBIO Technology**

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