

3x DYKDDDDK Tag TFA

Cat. No.:	HY-P3332A	
Molecular Formula:	C ₁₂₅ H ₁₇₇ F ₃ N ₃₀ O ₆₀	
Molecular Weight:	3116.9	
Sequence Shortening:	DYKDDDDKDYKDDDDKDYKDDDDK	DYKDDDDKDYKDDDDKDYKDDDDK (TFA salt)
Target:	Others	
Pathway:	Others	
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)	

SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (32.08 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration			
	1 mM	0.3208 mL	1.6042 mL	3.2083 mL
	5 mM	0.0642 mL	0.3208 mL	0.6417 mL
	10 mM	0.0321 mL	0.1604 mL	0.3208 mL

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

BIOLOGICAL ACTIVITY

Description

DYKDDDDK peptide (FLAG) is a useful tool for investigating the function and localization of proteins whose antibodies (Abs) are not available. Often it is also used in a 3X FLAG format (3x DYKDDDDK Tag TFA) for purifying difficult proteins that accumulate in low abundance [1][2].

In Vitro

HEK293 cells transiently transfected with HARS-expressing plasmids were harvested and lysed in CellLytic M buffer containing mammalian protease inhibitor cocktail for 20 min at 4 °C. FLAG-tagged HARS is purified by binding to an anti-DYKDDDDK resin per manufacturer protocol and eluted by competition with 3X-DYKDDDDK peptide in buffer containing 50 mM Tris-HCl pH 7.4, and 150 mM NaCl (purification of human HARS)[2].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mishra V. Affinity Tags for Protein Purification. Curr Protein Pept Sci. 2020;21(8):821-830.

Caution: Product has not been fully validated for medical applications. For research use only.

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