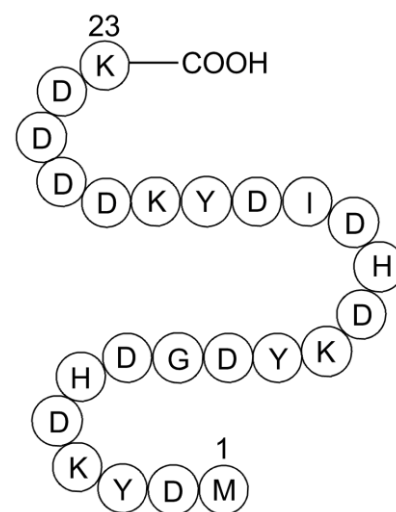


Product Data Sheet

Chemical Properties

Product Name:	3X FLAG Peptide
Cas No.:	N/A
M.Wt:	2861.87
Formula:	C120H169N31O49S
Synonyms:	H-Met-Asp-Tyr-Lys-Asp-His-Asp-Gly-Asp-Tyr-Lys-Asp-His-Asp-Ile-Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Lys-OH



Chemical Name:	3X FLAG Peptide
Canonical SMILES:	<chem>CCC(C)C(C(=O)NC(CC(=O)O)C(=O)NC(CC1=CC=C(C=C1)O)C(=O)NC(CCCN)C(=O)NC(CC(=O)O)C(=O)NC(CC(=O)O)C(=O)NC(CC(=O)O)C(=O)NC(C(CCCN)C(=O)O)NC(=O)C(CC(=O)O)NC(=O)C(CC2=CNC=N2)NC(=O)C(CC(=O)O)NC(=O)C(CCCN)NC(=O)C(CC3=CC=C(C=C3)O)NC(=O)C(CC(=O)O)NC(</chem>
Solubility:	≥143.1mg/mL in DMSO, <14.35mg/mL in EtOH, ≥143.4mg/mL in H2O with gentle warming
Storage:	Desiccate at -20°C
General tips:	For obtaining a higher solubility , please warm the tube at 37° C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20° C for several months.
Shopping Condition:	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request

Biological Activity

Targets :	Tag Peptides
Pathways:	

Description:

The FLAG-tag system utilizes a short, hydrophilic 8- amino-acid peptide that is fused to the protein of interest¹. The FLAG peptide binds to the antibody M1. Whether binding is calcium-dependent manner² or –independent³ remains controversial. A disadvantage of the system is that the monoclonal antibody purification matrix is not as stable as others. In general, small tags can be detected with specific monoclonal antibodies.

To improve the detection of the FLAG tag the 3x FLAG system has been developed. This threetandem FLAG epitope is hydrophilic, 22-amino-acids long and can detect up to 10 fmol of expressed fusion protein. The FLAG-tagged maltodextrin-binding protein of *Pyrococcus furiosus* has been crystallized⁴ and the quality of the crystals was very similar to that of crystals of untagged protein.

Finally, the FLAG-tag can be removed by treatment with enterokinase, which is specific for the five C-terminal amino acids of the peptide sequence⁵.

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maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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