

Certificate of Analysis

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Product Name: FAM-DEALAHypYIPMDDDFQLRSF

Catalog No.: 7452

Batch No.: 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂₂H₁₅₈N₂₄O₃₉S
Batch Molecular Weight: 2616.76
Physical Appearance: Yellow lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in PBS (pH 7.4)
Storage: Store at -20°C
Peptide Sequence: FAM-Asp-Glu-Ala-Leu-Ala-Hyp-Tyr-Ile-Pro-Met-Asp-Asp-Asp-Phe-Gln-Leu-Arg-Ser-Phe-NH₂

2. ANALYTICAL DATA

HPLC: Shows 99.4 % purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala	2.00	1.94	Lys				
Arg	1.00	1.01	Met	1.00	0.86		
Asx	4.00	4.23	Phe	2.00	2.04		
Cys			Pro	1.00	1.01		
Glx	2.00	2.08	Ser	1.00	0.99		
Gly			Thr				
His			Trp				
Ile	1.00	1.07	Tyr	1.00	1.01		
Leu	2.00	2.14	Val				

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: FAM-DEALAHypYIPMDDDFQLRSF

Catalog No.: 7452

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Description:

FAM-DEALAHypYIPMDDDFQLRSF is a 5-carboxyfluorescein (FAM) labeled HIF-1 α peptide. It binds with high affinity to von Hippel-Lindau (VHL) protein ($K_D = 3$ nM). Can be used to assess ligand binding to VHL in a direct fluorescence polarization (FP) displacement assay. Excitation/emission maxima (λ) = 485/520 nm. This product is a longer peptide version of FAM-DEALAHyp-YIPD (Cat. No. 7287).

Physical and Chemical Properties:

Batch Molecular Formula: C₁₂₂H₁₅₈N₂₄O₃₉S

Batch Molecular Weight: 2616.76

Physical Appearance: Yellow lyophilised solid

Peptide Sequence:

FAM-Asp-Glu-Ala-Leu-Ala-Hyp-Tyr-Ile-Pro-Met-Asp-Asp-Asp-Phe-Gln-Leu-Arg-Ser-Phe-NH₂

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

Soluble to 1 mg/ml in PBS (pH 7.4)

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 μ m filter to remove potential bacterial contamination whenever possible.

Other Information:

The HPLC purity stated is the sum of the non-oxidised and oxidised forms of this peptide, with the non-oxidized form $\geq 90\%$

References:

Crews et al (2018) Identification and Characterization of Von Hippel-Lindau-Recruiting Proteolysis Targeting Chimeras (PROTACs) of TANK-Binding Kinase 1. *J.Med.Chem.* **61** 583. PMID: 28692295.

Buckley et al (2012) Targeting the von Hippel-Lindau E3 ubiquitin ligase using small molecules to disrupt the VHL/HIF-1 α interaction. *J.Am.Chem.Soc.* **134** 4465. PMID: 22369643.

Ahn et al (2009) HIF-1 α peptide derivatives with modifications at the hydroxyproline residue as activators of HIF-1 α . *Bioorg.Med.Chem.Lett.* **19** 4403. PMID: 19515556.

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