

Certificate of Analysis

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Product Name: FAM-DEALA-Hyp-YIPD

Catalog No.: 7287

Batch No.: 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇₁H₈₄N₁₀O₂₅
Batch Molecular Weight: 1477.48
Physical Appearance: Yellow lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in 0.01M PBS
Storage: Store at -20°C
Peptide Sequence: FAM-Asp-Glu-Ala-Leu-Ala-Hyp-Tyr-Ile-Pro-Asp

2. ANALYTICAL DATA

HPLC: Shows 97.6% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala	2.00	1.90	Lys				
Arg			Met				
Asx	2.00	2.01	Phe				
Cys			Pro	1.00		1.03	
Glx	1.00	1.02	Ser				
Gly			Thr				
His			Trp				
Ile	1.00	0.96	Tyr	1.00		1.00	
Leu	1.00	1.03	Val				

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

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Product Name: FAM-DEALA-Hyp-YIPD

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Description:

FAM-DEALA-Hyp-YIPD is a fluorescent HIF-1 α peptide (K_d = 180-560 nM). Can be used to assess VHL binding in Fluorescence Polarization (FP) displacement assay, and evaluate the effect of VHL binding on degradation activity. Excitation maximum = 485 nm, emission maximum = 535 nm. Longer peptide version, FAM-DEALAHypYIPMDDDFQLRSF (Cat. No. 7452), also available.

Physical and Chemical Properties:

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Peptide Sequence:

FAM-Asp-Glu-Ala-Leu-Ala-Hyp-Tyr-Ile-Pro-Asp

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 0.01M PBS

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.

References:

Roy et al (2019) SPR-measured kinetics of PROTAC ternary complexes influence target degradation rate. ACS Chem.Biol. **14** 361. PMID: 30721025.

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.

Lucas et al (2018) Surface probing by fragment-based screening and computational methods identifies ligandable pockets on the von Hippel-Lindau (VHL) E3 ubiquitin ligase. J.Med.Chem. **61** 7387. PMID: 30040896.

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