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TOCRIS

Print Date: Mar 13th 2024

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:	$C_{71}H_{84}N_{10}O_{25}$
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		

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Product Name: FAM-DEALA-Hyp-YIPD **Catalog No.: 7287** **2**

Description:

FAM-DEALA-Hyp-YIPD is a fluorescent HIF-1α 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:

Batch Molecular Formula: $C_{71}H_{84}N_{10}O_{25}$

Batch Molecular Weight: 1477.48

Physical Appearance: Yellow lyophilised solid

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 in lyophilized form. It may appear as a solid, gel or film and 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 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 µm 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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