

Certificate of Analysis

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Product Name: FITC-CHIPOpt

Catalog No.: 8045

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₄H₆₇N₉O₁₄S
Batch Molecular Weight: 1218.35
Physical Appearance: Dark yellow lyophilised solid
Counter Ion: Acetate
Solubility: Soluble to 1 mg/ml in PBS
Storage: Store at -20°C
Peptide Sequence: FITC-Ahx-LWWPD

2. ANALYTICAL DATA

HPLC: Shows 96.8% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala				Lys			
Arg				Met			
Asx	1.00	0.99		Phe			
Cys				Pro	1.00	1.02	
Glx				Ser			
Gly				Thr			
His				Trp	2.00	Not Detected	
Ile				Tyr			
Leu	1.00	0.98		Val			

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

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Product Name: FITC-CHIPOpt**Catalog No.:** 8045**1****Description:**

FITC-CHIPOpt is a fluorescent CHIP/STUB1 E3 ligase inhibitor. It binds to CHIP and can be used in CHIP fluorescent polarization (FP) binding assays. Enables CHIP FP binding assays to be developed for new inhibitor or CHIP ligand synthesis. FITC-CHIPOpt is the fluorescent version of CHIPOP (Cat. No. 8044).

Physical and Chemical Properties:Batch Molecular Formula: C₆₄H₆₇N₉O₁₄S

Batch Molecular Weight: 1218.35

Physical Appearance: Dark yellow lyophilised solid

Peptide Sequence:

FITC-Ahx-LWWPD

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

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: Acetate**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 µm filter to remove potential bacterial contamination whenever possible.

References:

Nadel *et al* (2023) The E3 ubiquitin ligase, CHIP/STUB1, inhibits aggregation of phosphorylated proteoforms of microtubule-associated protein tau (MAPT). *J.Mol.Biol.* **435** 168026. PMID: 37330289.

Ravalin *et al* (2019) Specificity for latent C termini links the E3 ubiquitin ligase CHIP to caspases. *Nat.Chem.Biol.* **15** 786. PMID: 31320752.

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