

Certificate of Analysis

Print Date: Jul 24th 2024

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Product Name: XIAP Tracer mF-Smac Catalog No.: 8069 Batch No.: 1

CAS Number: 783340-88-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{51}H_{60}N_{10}O_{11}$

Batch Molecular Weight: 989.1

Physical Appearance: Dark yellow lyophilised solid

Counter Ion: TFA

Solubility: Soluble to 2 mg/ml in 25% ethanol / water

Storage: Store at -20°C

Peptide Sequence: Abu-Arg-Pro-Phe-Lys(FAM)-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual	Amino Acid Theoretical Actual

Ala			Lys	1.00	0.99
Arg	1.00	0.92	Met		
Asx			Phe	1.00	1.01
Cys			Pro	1.00	0.99
Glx			Ser		
Gly			Thr		
His			Trp		
lle			Tyr		
Leu			Val		

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

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Product Name:

Product Information

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XIAP Tracer mF-Smac Catalog No.: 8069 1

CAS Number: 783340-88-5

Description:

XIAP Tracer mF-Smac is a fluorescent labeled peptide used as an acceptor dye with a terbium labeled BIR domain antibody in TR-FRET assays (K_d values are 4.7 nM at BIR3 (XIAP); 17.9 nM in XIAP polarization assay).

Physical and Chemical Properties:

Batch Molecular Formula: C₅₁H₆₀N₁₀O₁₁

Batch Molecular Weight: 989.1

Physical Appearance: Dark yellow lyophilised solid

Peptide Sequence:

Abu-Arg-Pro-Phe-Lys(FAM)-NH2

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in 25% ethanol / water

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:

Chaudhry et al (2016) Building homogeneous time-resolved fluorescence resonance energy transfer assays for characterization of bivalent inhibitors of an inhibitor of apoptosis protein target. Anal.Biochem. 497 8. PMID: 26743718.

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