

Certificate of Analysis

Product Name: DSLET
CAS Number: 75644-90-5

Catalog No.: 1170 **Batch No.:** 7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₃H₄₆N₆O₁₀
Batch Molecular Weight: 686.9
Physical Appearance: White lyophilised solid
Net Peptide Content: 83.5%
Counter Ion: TFA
Solubility: Soluble to 0.50 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Tyr-D-Ser-Gly-Phe-Leu-Thr

2. ANALYTICAL DATA

HPLC: Shows 97.5% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala				Lys			
Arg				Met			
Asx				Phe	1.00		0.98
Cys				Pro			
Glx				Ser	1.00		0.81
Gly	1.00		1.03	Thr	1.00		0.89
His				Trp			
Ile				Tyr	1.00		0.90
Leu	1.00		1.00	Val			

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

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Description:

δ Opioid receptor agonist.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₃H₄₆N₆O₁₀

Batch Molecular Weight: 686.9

Physical Appearance: White lyophilised solid

Peptide Sequence:

Tyr-D-Ser-Gly-Phe-Leu-Thr

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 0.50 mg/ml in water

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.

Net Peptide Content: 83.5% (Remaining weight made up of counterions and residual water).

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 µm filter to remove potential bacterial contamination whenever possible.

References:

Yukhananov *et al* (1994) Opiate withdrawal intensity correlates with the presence of DSLET high-affinity binding. *Pharmacol.Biochem.Behav.* **49** 1109. PMID: 7886084.

Hiller *et al* (1996) Autoradiographic comparison of [³H]DPDPE and [³H]DSLET binding: evidence for distinct δ_1 and δ_2 opioid receptor populations in rat brain. *Brain Res.* **719** 85. PMID: 8782867.

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