

**Product Name:** Senktide  
CAS Number: 106128-89-6

**Catalog No.:** 1068 **Batch No.:** 21

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>40</sub>H<sub>55</sub>N<sub>7</sub>O<sub>11</sub>S  
**Batch Molecular Weight:** 841.97  
**Physical Appearance:** White lyophilised solid  
**Counter Ion:** Acetate  
**Solubility:** Soluble to 1 mg/ml in PBS (pH 7.4)  
**Storage:** Store at -20°C  
**Peptide Sequence:** Succinyl-Asp-Phe-Me-Phe-Gly-Leu-Met-NH<sub>2</sub>

**2. ANALYTICAL DATA**

**HPLC:** Shows 98.2% purity  
**Mass Spectrum:** Consistent with structure

**3. AMINO ACID ANALYSIS DATA**

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala				Lys			
Arg				Met	1.00		0.99
Asx	1.00		1.01	Phe	1.00		0.99
Cys				Pro			
Glx				Ser			
Gly	1.00		1.01	Thr			
His				Trp			
Ile				Tyr			
Leu	1.00		1.00	Val			

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**Description:**

Senktide is a NK<sub>3</sub> tachykinin receptor agonist. Causes direct excitation of dopamine neurons; enhances dopaminergic function. Induces locomotor activity.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>40</sub>H<sub>55</sub>N<sub>7</sub>O<sub>11</sub>S

Batch Molecular Weight: 841.97

Physical Appearance: White lyophilised solid

**Peptide Sequence:**Succinyl-Asp-Phe-Me-Phe-Gly-Leu-Met-NH<sub>2</sub>**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in PBS (pH 7.4)

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:** 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:**

**Nordquist *et al*** (2008) The tachykinin NK<sub>3</sub> receptor agonist senktide induces locomotor activity in male Mongolian gerbils. *Eur.J.Pharmacol.* **600** 87. PMID: 18930726.

**Keegan *et al*** (1992) The selective NK receptor agonist senktide excites a subpopulation of DA-sensitive neurones in the rat substantia nigra pars compacta *in vitro*. *Br.J.Pharmacol.* **105** 3. PMID: 1375857.

**Renzetti *et al*** (1991) Characterization of NK-3 binding sites in rat and guinea-pig cortical membranes by the selective ligand [<sup>3</sup>H] senktide. *Neuropeptides* **18** 107. PMID: 1712430.

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