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## **Product Information**

Product ID D1643 CAS No. 62568-57-4

**Chemical Name** 

Synonym

Formula C<sub>35</sub>H<sub>48</sub>N<sub>10</sub>O<sub>15</sub>

Formula Wt. 848.83

**Melting Point** 

Purity ≥95%

Solubility Soluble in water.

H-Trp-Ala-Gly-Gly-Asp-Ala-Ser-Gly-Glu-OH

## Bulk quanitites available upon request

Product ID	Size
D1643	1 mg
D1643	2 mg
D1643	5 mg

Store Temp -20°C Ship Temp Ambient

Description Delta sleep-inducing peptide exhibits anticonvulsant/antiepileptic and neuromodulatory activities. In vivo, this peptide decreases the incidence, severity, and duration of metaphit-induced seizures. Delta sleep-inducing peptide potentiates GABA currents and inhibits potentiation of NMDA currents in vivo. Additionally, this peptide exhibits hypoglycemia-like properties in other animal models, inhibiting non-enzymatic glycosylation of hemoglobin and decreasing protein oxidation. In myoleukemia cells, delta sleep-inducing peptide decreases expression of HSP70.

References Bondarenko TI, Sorokina IA, Mayboroda EA, et al. Effect of delta sleep-inducing peptide on oxidative modification of proteins in rat tissues and blood during physiological aging. Bull Exp Biol Med. 2012 Jul;153(3):371-4. PMID: 22866315.

> Nurbakov AA, Mikhaleva II, Sapozhnikov AM. Effect of delta-sleep-inducing peptide on expression of heat shock protein 70 kDa in K562 cells. Bull Exp Biol Med. 2009 Jan; 147(1): 39-41. PMID: 19526126.

> Grigor'ev VV, Ivanova TA, Kustova EA, et al. Effects of delta sleep-inducing peptide on pre- and postsynaptic glutamate and postsynaptic GABA receptors in neurons of the cortex, hippocampus, and cerebellum in rats. Bull Exp Biol Med. 2006 Aug;142 (2):186-8. PMID: 17369935.

Stanojlović OP, Zivanović DP, Mirković SD, et al. Antiepileptic activity of delta sleep-inducing peptide and its analogue in metaphit-provoked seizures in rats. Seizure. 2005 Jun;14(4):240-7. PMID: 15911358.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.