



>>Entry Name: Delta sleep-inducing peptide

Synonym(s): DSIP. Somnotid. Zircal. Zircan

CAS Registry Number: 62568-57-4

H-Trp-Ala-Gly-Gly-Asp-Ala-Ser-Gly-GluOH

Molecular Formula: C₃₅H₄₈N₁₀O₁₅

Molecular Weight: 848.822

Accurate Mass: 848.330065

Percentage Composition: C 49.53%; H 5.70%; N 16.50%; O 28.27%

Biological Source: Originally isol. from the extracorporeal dialysate of cerebral venous blood of rabbits. Subsequently synthesised

Use/Importance: Induces sleep when administered intravenously in animal models. Can cross blood-brain barrier. Anticonvulsant, hypnotic. Inhibits pituitary ACTH secretion

Sigma: T1762

References:

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Kiso, Y. *et al.*, *Pept. Chem.*, 1986, **24**, 299, (*synth, activity*)
Meyerson, L.R. *et al.*, *Peptides (N.Y.)*, 1986, **7**, 481, (*hplc*)
Graf, M.V. *et al.*, *Peptides (N.Y.)*, 1986, **7**, 1165, (*rev*)
Obal, F. *et al.*, *Pharmacol., Biochem. Behav.*, 1986, **24**, 889, (*struct, activity*)
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