



>>Entry Name: Sincalide, BAN, INN, USAN

Synonym(s): 1-De(5-oxo-L-proline)-2-de-L-glutamine-5-L-methioninecaerulein, 9Cl. Kinevac. CCK 8. Cholecystokininoctapeptide. SQ 19844

CAS Registry Number: 25126-32-3

H-Asp-Tyr(SO<sub>3</sub>H)-Met-Gly-Trp-Met-Asp-PheNH<sub>2</sub>

Molecular Formula: C<sub>49</sub>H<sub>62</sub>N<sub>10</sub>O<sub>16</sub>S<sub>3</sub>

Molecular Weight: 1143.284

Accurate Mass: 1142.35074

Percentage Composition: C 51.48%; H 5.47%; N 12.25%; O 22.39%; S 8.41%

Source/Synthesis: Synthetic peptide comprising the eight C-terminal residues of Cholecystokinin [BDP14-H](#)

Use/Importance: Like Cholecystokinin [BDP14-H](#) it causes gall-bladder contraction and in the presence of Secretin [BCJ82-P](#), stimulates pancreatic secretion. Used clinically as a diagnostic of pancreatic and gall-bladder function

Optical Rotation:  $[\alpha]_D^{23} -18.4$  (c, 0.7 in 1M NH<sub>3</sub>)

Fluka: 26690

Sigma: C9271

#### References:

- Rubin, B. *et al.*, *J. Pharm. Sci.*, 1969, **58**, 955, (*pharmacol*)  
Ondetti, M.A. *et al.*, *Pept.: Chem. Biochem., Proc. Am. Pept. Symp., 1st, 1968 (1970)*, (Weinstein, B., Ed.), Marcel Dekker Inc., New York, 1970, 181, (*synth*)  
Balaspiri, *Acta Physiol. Acad. Sci. Hung.*, 1976, **47**, 299, (*rev, synth*)  
Engel, S.L. *et al.*, *Pharmacol. Biochem. Prop. Drug Subst.*, 1979, **2**, 516, (*rev, pharmacol*)  
Rajh, H.M. *et al.*, *Int. J. Pept. Protein Res.*, 1980, **15**, 200, (*synth, biol activity*)  
*Modern Drug Encyclopaedia and Therapeutic Index, 16th edn.*, (Lewis, A.J., Ed.), Yorke Medical Books, New York, 1981, 863  
Roques, B.P. *et al.*, *Ann. N.Y. Acad. Sci.*, 1985, **448**, 61; 448, (*rev, biol activity, conformn, metab*)  
Nakahara, T. *et al.*, *Anal. Biochem.*, 1986, **154**, 194, (*synth*)  
Fournie-Zaluski, M.C. *et al.*, *Biochemistry*, 1986, **25**, 3778, (*conformn, nmr*)  
Penke, B. *et al.*, *J.O.C.*, 1987, **52**, 1197, (*synth*)  
Cеровski, V. *et al.*, *Coll. Czech. Chem. Comm.*, 1988, **53**, 1086, (*synth*)  
*Martindale, The Extra Pharmacopoeia, 30th edn.*, Pharmaceutical Press, 1993, 778