



>>Entry Name: **Pentagastrin**, BAN, INN, JAN, USAN

Synonym(s): *N*-[(1,1-Dimethylethoxy)carbonyl]- β -alanyltryptophylmethionyl- α -aspartylphenylalaninamide, 9CI. *N*-*tert*-Butoxycarbonyl- β -alanyltryptophylmethionylaspartylphenylalaninamide. Acignost. Gastrodiagnost. Peptavlon. AY 6608. ICI 50123

CAS Registry Number: 5534-95-2

BOC- β -Ala-L-Trp-L-Met-L-Asp-L-Phe(NH₂)

Molecular Formula: C₃₇H₄₉N₇O₉S

Molecular Weight: 767.902

Accurate Mass: 767.331248

Percentage Composition: C 57.87%; H 6.43%; N 12.77%; O 18.75%; S 4.18%

Source/Synthesis: Peptide with potent gastrin activity; used clinically as gastric secretion indicator

Physical Description: Cryst. (2-ethoxyethanol aq.)

Melting Point: Mp 229-230 dec.°

Optical Rotation: [α]_D²² -28.8 (c, 1 in DMF)

Sigma: B0886

References:

- Morley, J.S. *et al.*, *J.C.S.(C)*, 1966, 555, (*synth*)
Sakakibara, S. *et al.*, *Bull. Chem. Soc. Jpn.*, 1968, **41**, 438, (*synth*)
Sanders, M.G. *et al.*, *Am. J. Med.*, 1970, **49**, 380, (*rev*)
Wai, K.N. *et al.*, *J. Pharm. Pharmacol.*, 1970, **22**, 923, (*pharmacol*)
Selden, C. *et al.*, *J. Chromatogr.*, 1984, **305**, 43, (*isol, hplc*)
Fournie-Zaluski, M. *et al.*, *Int. J. Pept. Protein Res.*, 1985, **24**, 1663, (*conformn, pmr*)
Miller, L.J. *et al.*, *J. Chromatogr.*, 1986, **378**, 77, (*isol, hplc*)
Barlos, K. *et al.*, *Int. J. Pept. Protein Res.*, 1991, **37**, 513, (*synth*)
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