

Product Information

Protirelin, Purity $\geq 98\%$

Cat. No.: X24-09-YM1393

Size: 10 mg; 20 mg; 50 mg; 100 mg

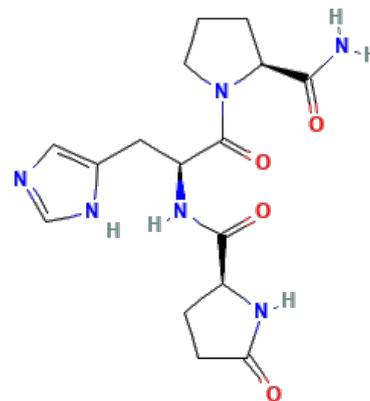
CAS Number: 24305-27-9

Compound CID: 638678

Synonym: 24305-27-9; Antepan; Hirtonin; A-38579;

(2S)-N-[(2S)-1-[(2S)-2-Carbamoylpyrrolidin-1-yl]-3-(1H-imidazol-5-yl)-1-oxopropan-2-yl]-5-oxopyrrolidine-2-carboxamide

This product is for research use only and is not intended for diagnostic use.



Product Information

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|--------------------------|--|
| Description | Protirelin, soluble in DMSO, water, and ethanol, is a thyrotropin-releasing hormone receptor. The molecular weight of the compound is 362.39, and its molecular formula is C ₁₆ H ₂₂ N ₆ O ₄ . |
| Molecular Weight | 362.39 |
| Molecular Formula | C ₁₆ H ₂₂ N ₆ O ₄ |
| IUPAC Name | (2S)-N-[(2S)-1-[(2S)-2-Carbamoylpyrrolidin-1-yl]-3-(1H-imidazol-5-yl)-1-oxopropan-2-yl]-5-oxopyrrolidine-2-carboxamide |
| InChI | InChI=1S/C16H22N6O4/c17-14(24)12-2-1-5-22(12)16(26)11(6-9-7-18-8-19-9)21-15(25)10-3-4-13(23)20-10/h7-8,10-12H,1-6H2,(H2,17,24)(H,18,19)(H,20,23)(H,21,25)/t10-,11-,12-/m0/s1 |
| InChI Key | XNSAINXGIQZQOO-SRVKXCTJSA-N |
| Canonical SMILES | C1CC(N(C1)C(=O)C(CC2=CN=CN2)NC(=O)C3CCC(=O)N3)C(=O)N |
| Form | Lyophilized powder |
| Purity | $\geq 98\%$ |
| Impurities | Free from inappropriate visible particulates, foreign matter, discoloration, or other defects. |
| Solubility | <i>In vitro</i> : DMSO: 64 mg/mL (176.6 mM); Water: 64 mg/mL (176.6 mM); Ethanol: 64 mg/mL (176.6 mM) |
| Identity | Confirmed by NMR/HPLC/MS. |
| Stability | In its lyophilized form, the chemical remains stable for 36 months. |
| Quality Level | Research grade |
| Applications | Protirelin plays a key role in regulating thyroid function and is used in tests to assess thyroid gland functioning. |



Storage

Store at -20°C, and keep desiccated.
