

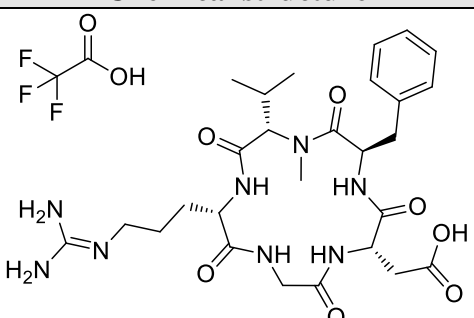


Certificate of Analysis

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|--------------------------------|--|-------------------------|
| MedKoo Cat#: 200780A | Product Name: Cilengitide (TFA salt) | Lot# KB30328A |
|--------------------------------|--|-------------------------|

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| Chemical name |
| 2-((2S,5R,8S,11S)-5-benzyl-11-(3-((diaminomethylene)amino)propyl)-8-isopropyl-7-methyl-3,6,9,12,15-pentaoxo-1,4,7,10,13-pentaazacyclopentadecan-2-yl)acetic acid, trifluoroacetic acid |

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|---|
| Synonyms |
| EMD 121974; EMD-85189; EMD-121974; NSC-707544; D03497; Cyclo(L-arginylglycyl-L-aspartyl-D-phenylalanyl-N-methyl-L-valyl), TFA salt. |

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|--|---|
| Chemical structure | CAS# and Theoretical analysis |
|  | MedKoo Cat#: 200780A Name: Cilengitide TFA salt CAS#: 199807-35-7 (TFA) Lot#: KB30328A Chemical Formula: C ₂₇ H ₄₀ N ₈ O ₇ Molecular Weight: 702.7 |

| Analysis item | Specification |
|---------------------------|--|
| Appearance | White to grey solid powder |
| Structure | ¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature. |
| Purity (HPLC) | 96% |
| Solubility | Soluble in DMSO |
| Conclusion | This product conforms with MedKoo's quality's standards |
| Shipping condition | Ambient temperature. This product is stable at ambient temperature for a few weeks during ordinary shipping and time spent in Customs. |
| Storage condition | Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition |
| Self life | At least 5 years if properly stored. |

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE