CERTIFICATE of ANALYSIS

Oligopeptide-41 (acetate)

(4S,7S)-N-((2S,5S,8S,11S,14S,17S,20S,23S)-20-((1H-imidazol-4-yl)methyl)-14-((1H-indol-3-yl)methyl)-23-(2-amino-2-oxoethyl)-11-(4-aminobutyl)-17-((R)-1-hydroxyethyl)-5-(hydroxymethyl)-2,8-dimethyl-1,4,7,10,13,16,19,24,25,28-decaoxo-3,6,9,12,15,18,21,22,27-nonaazanonacosan-29-yl)-4-(hydroxyamino)-7-((S)-2-(hydroxyamino)-3-phenylpropanamido)-9-(methylthio)-5,6-dioxononanamide, acetate

*Item No. 45628 * Batch No. 0820123*

Purity Specification: ≥95%

Molecular formula: C63H90N18O19S • XC2H4O2

CAS number: **Formula weight:** **1435.58** **Expiration date:** **22APR2030**

Overview

Tests	Results
HPLC	Purity: 98.8 %
Mass Spec	[M-2H]2-: 716.6
NMR	Conforms
Counterion	Conforms

Reviewed and approved by: Ryan Seiffert



WARNING
THIS PRODUCT IS FOR RESEARCH USE - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE. IT IS THE RESPONSIBILITY OF THE PURCHASER TO DETERMINE SUITABILITY FOR OTHER APPLICATIONS.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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