

INTRAVENOUS FIBRONECTIN (FN)-DERIVED cNP8 PEPTIDE PHASE 1 STUDY

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ABSTRACT

Background: Burns are dynamic injuries characterized by progressive extension of the depth and size of the burn over the course of several days. NeoMatrix Therapeutics (NMT) discovered a natural, partially elastase-resistant, peptide (P46). Next P46 was engineered to a peptide (cNP8) that was completely resistant to elastase. NMT then initiated cNP8's ability to speed wound closure with a single intravenous (IV) infusion initiated 8-48h post-burn.

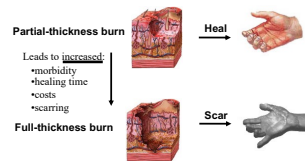
Methods: This Phase 1 clinical trial was a randomized, double-blind, placebo-controlled, single ascending dose study to evaluate the safety, tolerability, and PK profile of cNP8 in healthy male and female subjects, between 18 to 65, that met Inclusion and Exclusion Criteria. Each subject was randomized to receive either a single dose of cNP8 or placebo. Each dose cohort included 6 subjects dosed with cNP8 and 2 subjects dosed with placebo. The first two subjects in each cohort were dosed as sentinel subjects (one with cNP8 and one with placebo) and monitored for adverse events. If no serious events occurred in the acute post-dose period (24h), the remaining 6 subjects were dosed from lowest to highest cNP8 dose (0.001, 0.003, 0.01 and 0.03 mg/kg). Subjects received a single, approximately 30-minute IV infusion of cNP8 or placebo. Samples for serum chemistries and hematology, urinalysis, vital signs, and ECGs were obtained at several time points during the study. Blood samples for cNP8 plasma pharmacokinetic (PK) analysis were collected at pre-dose; 15, 30, and 45 minutes and 1 and 4 hours following the start of study drug infusion. The PK profile of cNP8 was calculated for standard PK parameters using non-compartmental methods and the actual sampling times for each subject. Summary statistics, including number (n), mean, standard deviation, median, and range (minimum, maximum), were tabulated for the observed values; and the change (or percent change) from baseline for all continuous parameters for vital signs, ECG, and laboratory tests were reported.

Results: All 32 subjects who entered the study received study drug, completed the study per protocol, and were included in the safety analysis. There were no deaths, SAEs, or subject discontinuations due to AEs in this study. In total, 7 subjects experienced a total of 9 AEs of which 4 were assessed to be AEs reported on/after initiation of study treatment or any pre-existing AE/condition that worsened in severity following initiation of study treatment. At post-dose timepoints, mean hematology, serum chemistry, and urinalysis parameters remained within reference ranges. After single IV cNP8 infusions of 0.001, 0.003, 0.01, and 0.03 mg/kg, mean concentrations of cNP8 peaked (C_{max}) around 30 minutes. After C_{max}, rapid clearances were observed across all dose groups, particularly within the first 2 hours.

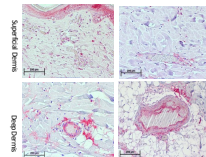
Conclusion: These results support the favorable safety and PK profiles of cNP8 in healthy subjects.

UNMET NEED

Therapy to limit burn injury progression



PROBLEM: RBC Plugging of Peri-burn Blood Vessels



However, some fibrin was in perivascular distribution of BV in deep dermis

SOLUTION: Fibronectin Peptides

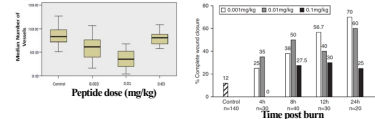


Lin et al. J Invest Dermatol. 2014

NMT discovered a 15-residue peptide, P46, in 1st type III repeat of FN. P46 was redesigned (cNP8) to resist both serum neutrophil elastase and blood exopeptidases.

NMT Peptides contain RWRPK & dilate cutaneous arterioles

BV occluded with RBCs at 24h, porcine model



MISSION: Limit injury progression after burns



Military need: Burns represent 5-20% of all combat related injuries, 20% considered severe or involve >20% of TBSA, resulting in significant morbidity and mortality as well as long-term complications including functional impairment and aesthetic disfigurement

Civilian need: 500,000 burns/yr in USA, 40,000 require hospitalization, 50% admitted to burn units, 4,000 deaths

Direct costs: \$2 billion/yr in USA

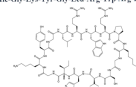
Preclinical Safety Studies

Preclinical Safety Studies were conducted by Charles River Laboratories, a Good Laboratory Practice (GLP) laboratory, for rat and dog toxicopharmacology and for genetic toxicity studies. All studies were coordinated and evaluated by Reno and Associates.

1. Single-dose Toxicity on Rats
2. Single-dose Toxicity on Dogs
3. Two GLP-compliant in vitro genetic toxicity studies

Figure 1. cNP8 structure cyclized to prevent blood exopeptidase digestion

Cycle 1,15 (His-Bu-Gly-Lys-Tyr-Gly-Leu-Arg-Trp-Gly-Phe-Lys-Gly-Ser-Val)



Chemical Formula: C₂₁₄H₃₂₈N₄₀O₇₂
Molecular Weight: 1736.06
MW: 1734.10 (0.00%), 1735.08 (0.00%), 1736.06 (0.00%), 1737.04 (0.00%), 1738.02 (0.00%), 1739.00 (0.00%), 1740.00 (0.00%), 1741.00 (0.00%), 1742.00 (0.00%), 1743.00 (0.00%), 1744.00 (0.00%), 1745.00 (0.00%), 1746.00 (0.00%), 1747.00 (0.00%), 1748.00 (0.00%), 1749.00 (0.00%), 1750.00 (0.00%), 1751.00 (0.00%), 1752.00 (0.00%), 1753.00 (0.00%), 1754.00 (0.00%), 1755.00 (0.00%), 1756.00 (0.00%), 1757.00 (0.00%), 1758.00 (0.00%), 1759.00 (0.00%), 1760.00 (0.00%), 1761.00 (0.00%), 1762.00 (0.00%), 1763.00 (0.00%), 1764.00 (0.00%), 1765.00 (0.00%), 1766.00 (0.00%), 1767.00 (0.00%), 1768.00 (0.00%), 1769.00 (0.00%), 1770.00 (0.00%), 1771.00 (0.00%), 1772.00 (0.00%), 1773.00 (0.00%), 1774.00 (0.00%), 1775.00 (0.00%), 1776.00 (0.00%), 1777.00 (0.00%), 1778.00 (0.00%), 1779.00 (0.00%), 1780.00 (0.00%), 1781.00 (0.00%), 1782.00 (0.00%), 1783.00 (0.00%), 1784.00 (0.00%), 1785.00 (0.00%), 1786.00 (0.00%), 1787.00 (0.00%), 1788.00 (0.00%), 1789.00 (0.00%), 1790.00 (0.00%), 1791.00 (0.00%), 1792.00 (0.00%), 1793.00 (0.00%), 1794.00 (0.00%), 1795.00 (0.00%), 1796.00 (0.00%), 1797.00 (0.00%), 1798.00 (0.00%), 1799.00 (0.00%), 1800.00 (0.00%), 1801.00 (0.00%), 1802.00 (0.00%), 1803.00 (0.00%), 1804.00 (0.00%), 1805.00 (0.00%), 1806.00 (0.00%), 1807.00 (0.00%), 1808.00 (0.00%), 1809.00 (0.00%), 1810.00 (0.00%), 1811.00 (0.00%), 1812.00 (0.00%), 1813.00 (0.00%), 1814.00 (0.00%), 1815.00 (0.00%), 1816.00 (0.00%), 1817.00 (0.00%), 1818.00 (0.00%), 1819.00 (0.00%), 1820.00 (0.00%), 1821.00 (0.00%), 1822.00 (0.00%), 1823.00 (0.00%), 1824.00 (0.00%), 1825.00 (0.00%), 1826.00 (0.00%), 1827.00 (0.00%), 1828.00 (0.00%), 1829.00 (0.00%), 1830.00 (0.00%), 1831.00 (0.00%), 1832.00 (0.00%), 1833.00 (0.00%), 1834.00 (0.00%), 1835.00 (0.00%), 1836.00 (0.00%), 1837.00 (0.00%), 1838.00 (0.00%), 1839.00 (0.00%), 1840.00 (0.00%), 1841.00 (0.00%), 1842.00 (0.00%), 1843.00 (0.00%), 1844.00 (0.00%), 1845.00 (0.00%), 1846.00 (0.00%), 1847.00 (0.00%), 1848.00 (0.00%), 1849.00 (0.00%), 1850.00 (0.00%), 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