

**Figure 1****Figure 1a. Sequence of the human proNGF (SEQ ID NO: 1)**

MEPHSESNVPAGHTIPQVHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDPRLFKRRRLRSPRVLFST  
 QPPREAADTQDLDFEVGGAAPFNRTHRSKRSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNIN  
 NSVFKQYFFETKCRDPNPVDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVR

**Figure 1b. Sequence of a proNGF mutant of the invention (SEQ ID NO: 2)**

MEPHSESNVPAGHTIPQVHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDPRLFKRRRLRSPRVLFST  
 QPPREAADTQDLDFEVGGAAPFNRTHVSXRSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNI  
 NNSVFKQYFFETKCRDPNPVDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVR

**Figure 1c. Sequence of a proNGF mutant of the invention (SEQ ID NO: 3)**

MEPHSESNVPAGHTIPQVHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDPRLFKRRRLRSPRVLFST  
 QPPREAADTQDLDFEVGGAAPFNRTHXSXRSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNIN  
 NSVFKQYFFETKCRDPNPVDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVR

**Figure 1d. Sequence of a proNGF mutant of the invention (SEQ ID NO: 4)**

MEPHSESNVPAGHTIPQVHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDPRLFKRRRLRSPRVLFST  
 QPPREAADTQDLDFEVGGAAPFNRTHXSARSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNIN  
 NSVFKQYFFETKCRDPNPVDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVR

**Figure 1e. Sequence of proNGF mutant SP174-101 (SEQ ID NO: 5)**

MEPHSESNVPAGHTIPQVHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDPRLFKRRRLRSPRVLFST  
 QPPREAADTQDLDFEVGGAAPFNRTHVSARSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNIN  
 NSVFKQYFFETKCRDPNPVDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVR

**Figure 1f. Sequence of a proNGF mutant of the invention (SEQ ID NO: 7)**

MEPHSESNVPAGHTIPQVHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDPRLFKRRRLRSPRVLFST  
 QPPREAADTQDLDFEVGGAAPFNRTHXXXXSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNIN  
 NSVFKQYFFETKCRDPNPVDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVR

**Figure 1g. Sequence of a proNGF mutant of the invention (SEQ ID NO: 8)**

MEPHSESNVPAGHTIPQVHWTKLQHSLDTALRRARSAPAAAIAARVAGQTRNITVDPRLFKRRRLRSPRVLFST  
 QPPREAADTQDLDFEVGGAAPFNRTHVXARSSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNI  
 NNSVFKQYFFETKCRDPNPVDSGCRGIDSKHWNSYCTTTHTFVKALTMDGKQAAWRFIRIDTACVCVLSRKAVR

**Figure 1h. Protease cleavage sites**

RXKR (SEQ ID NO: 6); RSKR (SEQ ID NO: 9); VSXR (SEQ ID NO: 10); XSXR (SEQ ID NO: 11); XSAR (SEQ ID NO: 12); VSAR (SEQ ID NO: 13); XXXR (SEQ ID NO: 14); VXAR (SEQ ID NO: 15).

Figure 2. Processing of proNGF or proNGF mutants to beta-NGF

Figure 2a. Processing of wild-type proNGF

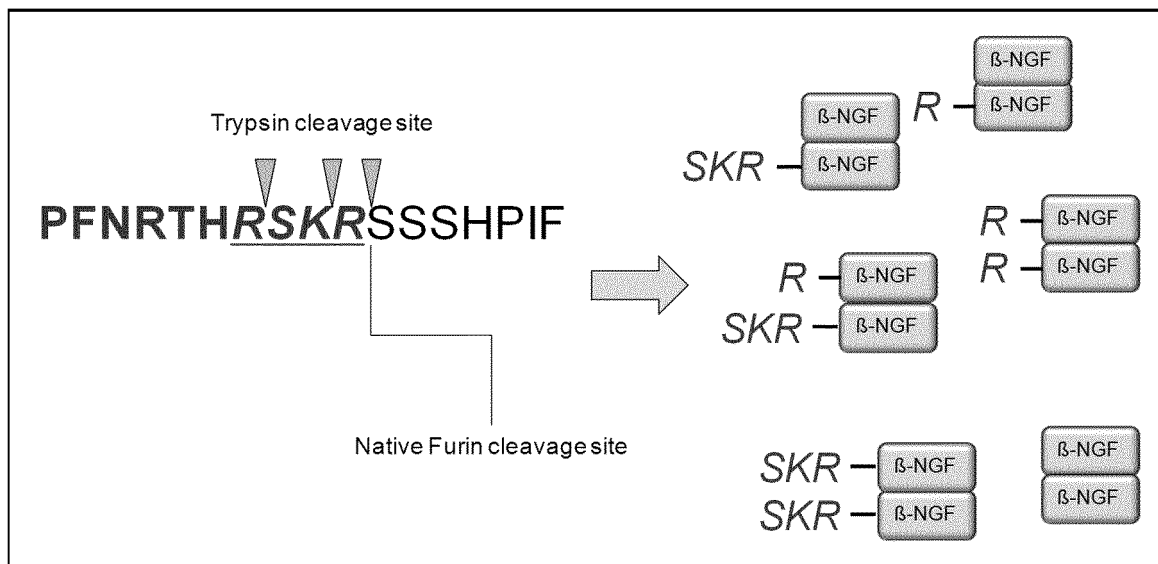


Figure 2b. Processing of proNGF mutant SP174-101 (SEQ ID NO: 5)

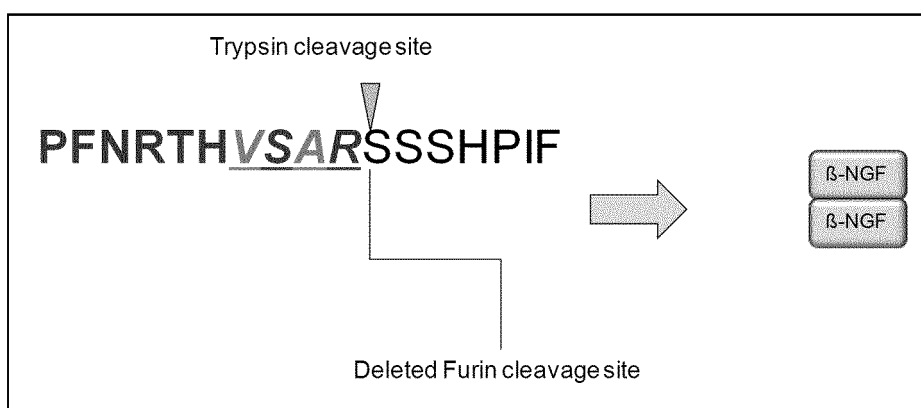


Figure 3. Refolding of proNGF mutant SP174-101

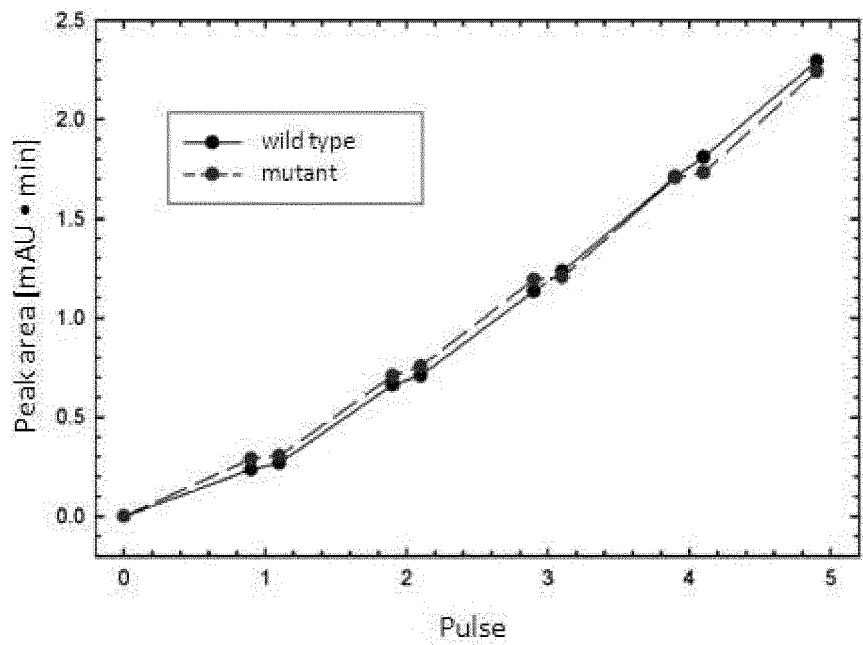
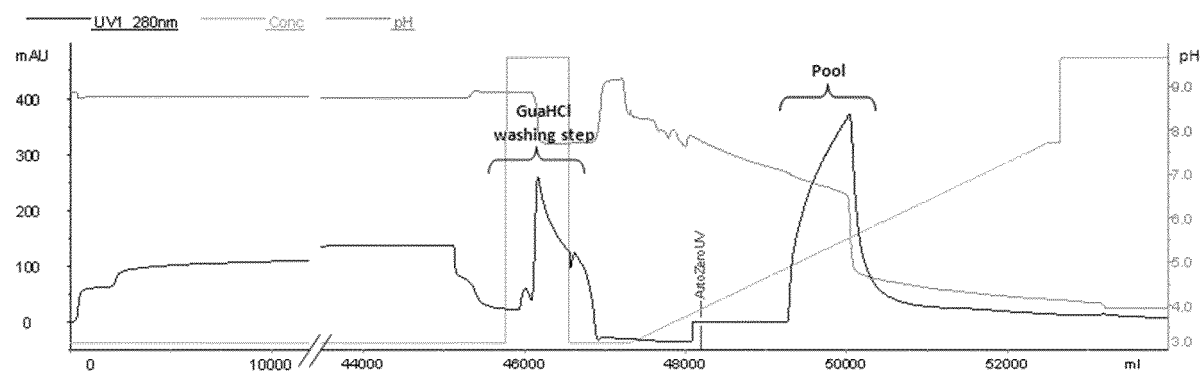
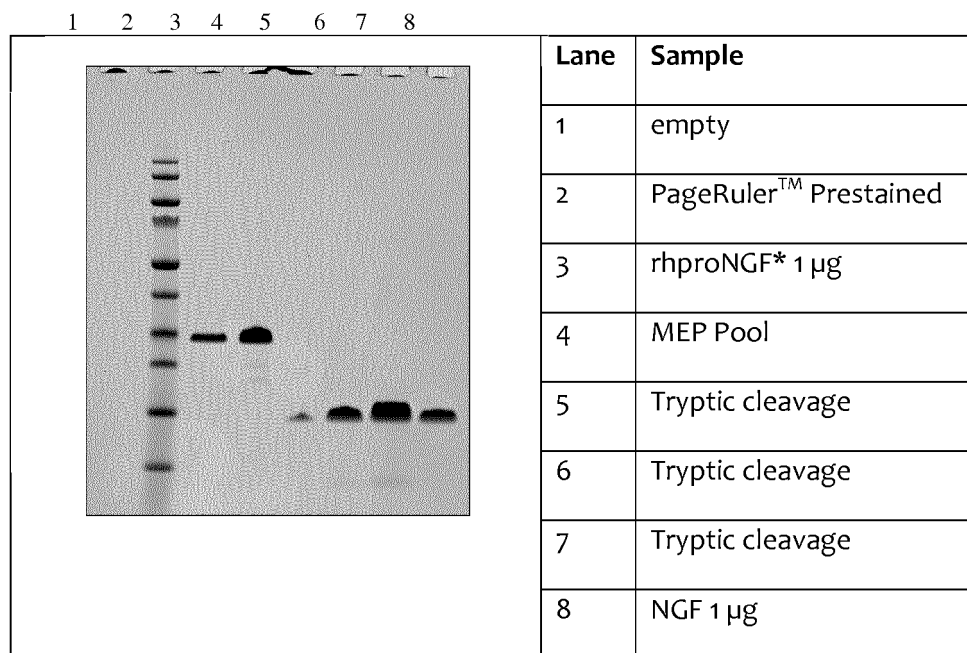


Figure 4. Purification of proNGF SP174-101 by a MEP column



**Figure 5. Cleaving proNGF mutant SP174-101 to obtain active beta-NGF****Figure 6. Purification of beta-NGF by SP Sepharose HP chromatography.**