



Core Facility Functional Peptidomics

Spleen

Peptide Library

Library-ID: SP 20160427

Date: 10/01/2018

Availability: yes

Material collection:

Collector: Pathology Ulm

Material: Human spleen

Starting Amount: 2.3 kg of spleen tissue

Collecting Details:

2.3 kg of human spleen tissue was homogenized in 4 M acetic acid.

Library Generation:

The acetic acid extract was centrifuged (4.200 rpm), ultracentrifuged (100.000 g) and the supernatant was filtered (different filters from 20, 8, 5, 3, 1.2 0.45 μm filter). The clear supernatant (2 L) was diluted with water and applied to an ultrafiltration step (cut-off: 30 kDa) resulting in a volume of 2.5 L. The obtained filtrate was applied to a cation exchange chromatographic column. Peptides were eluted according their basicity into different pH pool fractions and then separated consecutively using reversed phase chromatography.

In total the library consists of 605 fractions and corresponding aliquots.

Number of Fractions: 605

Fraction content: lyophilized aliquots of 0.1 – 1 % of the mother fractions, each containing 0.1 - 1 mg of peptide/protein powder



Library Usage:

Recommended Use:

Spleen is supposed to be a valuable source of immunomodulatory factors, antibacterial and (anti-)inflammatory peptides and proteins.