The neurotrypsin / agrin system

The NTCAF ELISA determines the amount of CAF in human serum. CAF is the 22-kd C-terminal Agrin Fragment. Agrin is cleaved by neurotrypsin at 2 positions. Cleavage of agrin at the β-site releases CAF (Stephan et al. 2008) and leads to inactivation of agrin and consequently to a dispersal of neuromuscular junctions (NMJs) (Bolliger et al. 2010). All human serum samples examined so far contain detectable amounts of CAF. An analysis of 200 sera obtained from ostensibly healthy individuals, age range 20-75 years, gave CAF values in a range of 20 pM to 100 pM.

References
