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Recombinant Human Major Prion Protein/PRP/CD230 Protein

产品货号: TP05509

第三版

别名: Major Prion Protein; PrP; ASCR; PrP27-30; PrP33-35C; CD230; PRNP; PRIP; PRP

描述: Major Prion Protein is unique in its ability to reproduce on its own and become infectious. The discovery of prion proteins as infectious agents began in the 1980s with an outbreak of mad cow disease in the United Kingdom. They are found in high quantity in the brain of humans and animals infected with neurodegenerative diseases known as transmissible spongiform encephalopathies or prion diseases. They can occur in two forms called PrP-sen and PrP-res. The normal, monomeric form has a mainly alpha-helical structure. The disease-associated, protease-resistant form forms amyloid fibrils containing a cross-beta spine, formed by a steric zipper of superposed beta-strands. Disease mutations may favor intermolecular contacts via short beta strands, and may thereby trigger oligomerization. Contains an N-terminal region composed of octamer repeats. Diseases caused by prions are known as spongiform diseases, because the brain tissue in infected individuals is filled with holes, giving it a sponge-like appearance. Although prions are found throughout the brain, the symptoms of spongiform diseases vary according to the regions. There are currently no effective treatments for spongiform diseases and all are fatal. Prions cannot be destroyed by boiling, alcohol, acid, standard autoclaving methods, or radiation. In fact, infected brains that have been sitting in formaldehyde for decades can still transmit spongiform disease.

配方: PBS

分子量: 16.3 kDa

序列: Gln91-Ser231

纯度: > 95% by HPLC

浓度:

内毒素: <1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.