

**DATA SHEET**

**Product Name:** N15 APP 669-711, Uniformly Labeled

**Catalog #:** AP-1101

**Source:** Recombinant. A DNA sequence encoding the human APP669-711 sequence was expressed in E. coli, with N15 as the nitrogen source.

**Molecular Mass:** 4,742 Da theoretical

**Protein Purity:** >97% by Mass Spec.

**Counter Ion:** NH<sub>4</sub>OH

**Supplied As:** White lyophilized powder

**Resuspension:** Resuspend in 1% NH<sub>4</sub>OH at conc. of .1-1 mg/ml. Recommended to briefly centrifuge to ensure full resuspension of product

**Storage:** -20°C

**Description:** Amyloid precursor protein (APP) is a membrane spanning protein that functions as the precursor to amyloid beta in plaques of Alzheimer's disease patients. There are three major isoforms which have 695, 751, and 770 amino acids. The protein has a role in neuronal stem cell development, neuronal survival, neurite outgrowth, and neurorepair<sup>1</sup>. Recently, APP669-711 was shown to serve as a blood-based biomarker<sup>2</sup>. This product has been uniformly labeled with N15.

**References:**  
1. Dawkins, et al., (2014) J Neurochem., 129 (5) : 756-769  
2. Nakamura, et al., (2018) Nature, 554 (7691) : 249-254

***For research use only. Not for use in humans.***