

DATA SHEET

Product Name: N15 Beta-Amyloid (11-40), Rat, Uniformly Labeled

Catalog #: A-1140

Source: Recombinant. A DNA sequence encoding the rat beta-amyloid (11-40) sequence was expressed in E. coli and uniformly labeled with N15 as the nitrogen source.

Molecular Mass: 3,209 Da theoretical

Protein Purity: >97% by Mass Spec.

Counter Ion: TFA

Supplied As: White lyophilized powder

Resuspension: Resuspend in 1% NH₄OH at conc. of .1-1 mg/ml. Recommended to briefly centrifuge to ensure full resuspension of product.

Storage: -20°C

Description: N15 uniformly labeled beta-amyloid peptide (A-beta). Beta-amyloid peptide (A-beta), the major constituent of amyloid plaques in the brains of Alzheimer's patients, is thought to be the cause of Alzheimer's Disease (AD). Alzheimer's diseased brains show significant levels of A-beta (11-40) and A-beta (11-42)¹. The β -secretase enzyme or β -amyloid precursor protein-cleaving enzyme (BACE) generates the N terminus of A β , producing full-length A-beta (1-40 and 1-42) and/or truncated A-beta (11-40 and 11-42)¹. The abundance of A-beta (11-40 and 11-42) produced by BACE suggests that they might be playing an important role in Alzheimer's disease pathogenesis.

References: 1. Liu, K., et al., (2002) Biochemistry, 41: 3128-36.

For research use only. Not for use in humans.