

# Download Define Intermediate Filaments

Neurofilaments (NF) are intermediate filaments found in the cytoplasm of neurons. They are protein polymers measuring approximately 10 nm in diameter and many micrometers in length. Each myofibril can be understood as a series of contractile units called sarcomeres that contains two types of filaments: thick filaments, composed of myosin, and thin filaments, composed of actin. Actin is a family of globular multi-functional proteins that form microfilaments. It is found in essentially all eukaryotic cells (the only known exception being nematode sperm), where it may be present at a concentration of over 100  $\mu$ M; its mass is roughly 42-kDa, with a diameter of 4 to 7 nm.

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