

## RECOMBINANT HUMAN MIDKINE

**CATALOG NUMBER:** AG243

**LOT NUMBER:**

**QUANTITY:** 20 µg

**DESCRIPTION:** Human Midkine (MK) is a new member of the heparin-binding neurotrophic factor family. MK and PTN (Pleiotrophin) are structural homologs, and are highly conserved among species. MK plays important roles in development and carcinogenesis and has several important biological effects, including promotion of neurite extension and neuronal survival. Recombinant Midkine is a 13.4 kDa protein, comprising of 123 amino acid residues.

**SOURCE:** *E. coli*

**PURITY:** Greater than 98% by SDS-PAGE and HPLC analysis. Endotoxin level is less than 0.1 ng per µg of MK (1EU/µg).

**BIOLOGICAL ACTIVITY:** Determined by its ability to chemoattract human neutrophils using a concentration range of 0.1-10.0 ng/mL.

**PRESENTATION:** Lyophilized from 0.4x PBS, pH 7.4.

**STORAGE/HANDLING:** The lyophilized powder, though stable at room temperature, is best stored desiccated at -20°C for up to 12 months after date of receipt. After a quick spin, reconstitute with sterile water to a concentration of 0.1-1.0 mg/mL. This solution can be diluted into water or other buffered solutions. Reconstituted MK should be stored in undiluted aliquots at -20°C for up to 6 months.

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