

# ***Life Diagnostics, Inc.***

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## ***Mouse Skeletal Muscle Creatine Kinase (CK-MM)***

Catalog No.	1800-1
Analysis	SDS PAGE: Major 43 kDa band with a minor degradation band.
Purity	≥90%
Concentration	1 - 5 mg/ml (determined by A <sub>280</sub> assuming an extinction coefficient of 37,025 cm <sup>-1</sup> M <sup>-1</sup> )
Buffer	50% Glycerol (v/v), 50 mM TrisCl, 2.5 mM β-mercaptoethanol, 0.05% NaN <sub>3</sub> , pH 7.5
Storage	-20°C (Do not store at lower temperatures)
Source	Fresh frozen mouse skeletal muscle

Creatine kinase (CK) is a key metabolic enzyme. It is a dimer of two subunits, each with molecular weights of approximately 43 kDa. Two different subunits are expressed, M and B. The CK holoenzyme exists as MM and BB homodimers and an MB heterodimer. The MM and BB isoforms are expressed primarily in skeletal muscle and brain respectively while both MB and MM are expressed in heart. CK-MM was purified from skeletal muscle using affinity chromatography. Enzyme activity has not been evaluated.

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