

MLCK

Native Human Heart Myosin Light Chain (MLC) Kinase

Catalog No.	CSI20334A	Quantity:	100 µg
	CSI20334B		0.5 mg

Description: These enzymes are important in the mechanism of contraction in muscle. Once there is an influx of calcium cations (Ca⁺⁺) into the muscle, either from the sarcoplasmic reticulum or, more importantly, from the extracellular space, contraction of smooth muscle fibers may begin. First, the calcium will bind to calmodulin. This binding will activate MLCK, which will go on to phosphorylate the myosin light chain at serine residue 19. This will enable the myosin crossbridge to bind to the actin filament and allow contraction to begin (through the crossbridge cycle). Since smooth muscle does not contain a troponin complex like striated muscle does, this mechanism is the main pathway for regulating smooth muscle contraction.

Source: Human Heart

Formulation: Lyophilized from ammonium carbonate buffer

Storage & Stability: Store at 2-4°C.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

