AG SCIENTIFIC
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Certificate of Analysis

PRODUCT:	**Calmodulin, Wheat, Biotinylated; CaM*Tag*™ Biotin** (*Triticum aestivum*)
PRODUCT NUMBER:	C-1423
LOT NUMBER:	H1251
PURITY:	This preparation is greater than 98% by SDS-PAGE stained with Coomassie blue having a single band at approximately 17 kDa; Actual molecular weight is 16,750 Da.
ACTIVITY:	Greater than 35,000 units per mg protein. One unit will stimulate 0.01 unit of 3':5'-cyclic nucleotide phosphodiesterase in a 3 ml reaction volume at pH 7.5 and 30°C, to 50% of the maximum activity of the enzyme when saturated with CaM in the presence of 100 μM Ca^{2+}. Biotin/Protein Ratio: 0.5 – 1.0 as determined by HABA assay
PRODUCT FORMULATION:	Lyophilized from 5% sucrose, 10 mM sodium phosphate, pH 7.0 at a protein concentration of approximately 1 mg per ml in a plastic screw-cap 1.5 ml vial.
PRODUCT DESCRIPTION:	Wheat germ (*Triticum aestivum*) calmodulin (CaM) sequence is unique in that it contains cysteine at residue position 26 (Cys26). In contrast to mammalian CaMs, which lack cysteine, this preparation is ideal for applications requiring both calmodulin activation and residue specific tagging. Mono-tagged Biotinylated labeled wheat germ calmodulin at position Cysteine 26 is useful for protein array applications for the detection of calmodulin binding proteins (CBPs), Western blots and other applications requiring a convenient and superior fluorescently labeled calmodulin.
STORAGE & HANDLING:	**Store desiccated at –20˚C.** CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KS

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