

## 32-8205: Recombinant Human Calpain-2 Catalytic Subunit/CAPN2 (C-6His)(Discontinued)

**Gene :** CAPN2  
**Gene ID :** 824  
**Uniprot ID :** P17655

### Description

Source: E. coli.  
MW :81kD.

Recombinant Human CAPN2 is produced by our E.coli expression system and the target gene encoding Met1-Leu700 is expressed with a 6His tag at the C-terminus. Calpain-2 Catalytic Subunit (CAPN2) is an intracellular cysteine protease. It contains 1 calpain catalytic domain and 3 EF-hand domains. CAPN2 is a member of the peptidase C2 family of intracellular Ca<sup>2+</sup>-regulated cysteine proteases. These ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits (CAPN2) associated with a common small, regulatory subunit (CAPNS1). CAPN2 is activated by 200-1000 micromolar concentrations of calcium and inhibited by calpastatin. CAPN2 is calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,2mM DTT,50% Glycerol,pH7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MAGIAAKLAKDREAAEGLGSHERAIKYLNQDYEARNECLEAGTLFQDPSFPAIPSA LGFKELGPYSSKTRGIEW  
KRPTICADPQFIIGGATRTDICQALGDCWLLAAIASLTLNEEILARVVPLNQSFQENYAGIFHFQFWQYGEWV  
EVVVDDRLPTKDGELLFVHSAEGSEFWSALLEKAYAKINGCYEALSGGATTEGFEDFTGGIAEWYELKKPPPNL  
FKIIQKALQKGSLLGCSIDITSAADSEAITFQKLVKGHAYSVTGAEVEVSNGLQKLIRIRNPWGEVEWTGRWND  
NCPSWNTIDPEERERLTRRHEDGEFWMFSDFLRHYSRLEICNLTPDTLTSPTYKKWKLTKMDGNWRRGSTA  
GGCRNYPNTFWMNPQYLIKLEEEDEDEEDGESGCTFLVGLIQHRRRQRKMGEDMHTIGFGIYEVPEELSGQT  
NIHLSKNFFLTNRARERSDTFINLREVLNRFKLPPEYILVPSTFEPNKDGDGFCIRVFSEKKADYQAVDDEIEANLE  
EFDISEDDIDDGFRRLFAQLAGEDAEISAFELQTLRRVLAKRQDIKSDGFSIETCKIMVDMMLSDGSGKLGKLF  
YILWTKIQKYQKIYREIDVDRSGTMNSYEMRKALEEAGFKMPCQLHQVIVARFADDQLIIDFDNFVRCLVRLLETLF  
KIFKQLDPENTGTIELDLISWLCFSVLVEHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.