

Recombinant Mouse CASP1 Protein (His Tag)

Catalog Number: PDEM100258

Note: Centrifuge before opening to ensure complete recovery of vial contents.

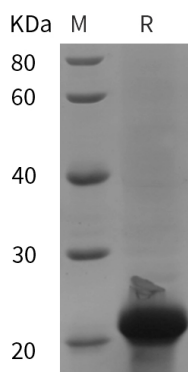
Description

Species	Mouse
Source	E.coli-derived Mouse CASP1 protein Asn120-Asp296, with an N-terminal His
Calculated MW	19.4 kDa
Observed MW	21 kDa
Accession	P29452
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Mouse CASP1 proteins, 2 µg/lane of Recombinant Mouse CASP1 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 21 kDa.

Background

Caspase-1, also known as IL-1 beta-converting enzyme (ICE), is an aspartic protease that plays a key role in the inflammatory response and apoptosis. Caspase-1 precursor (about 50kDa) can be cleaved and the active enzyme consists of a complex of two 20 kDa (aa 120-297) and two 10 kDa (aa 317-404) subunits which associate following cleavage of inactive precursors. Caspase-1 is required for proteolytic cleavage of the IL-1 beta precursor to form the active proinflammatory cytokine. Alternate splicing generates several additional Caspase-1 isoforms with deletions in the propeptide regions or also in the mature subunits.

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