

Recombinant Human Caspase-14/CASP14 Protein (His Tag)

Catalog No. PKSH030982

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

Description

Synonyms Caspase-14;CASP-14;CASP14;MGC119078;MGC119079

SpeciesHumanExpression HostE.coli

SequenceSer 2-Gln 242AccessionNP_036246.1Calculated Molecular Weight28.5 kDaObserved molecular weight30 kDaTagN-His

Bioactivity Measured by its ability to bind biotinylated Cynomolgus IL18 in a functional

ELISA.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin Please contact us for more information.

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 sterile PBS, pH 7.4

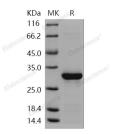
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

<u>Data</u>



>95~% as determined by reducing SDS-PAGE.

Background

Caspase 14 is a member of the caspase family. Caspases are a kind of cysteine proteinase consisting of a prodomain plus

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large and small catalytic subunits, that play a central role in cell apoptosis. Caspase 14 possesses an unusually short prodomain and is highly expressed in embryonic tissues but absent from most of the adult tissues except for the skin, which suggests a role in ontogenesis and skin physiology. Unlike the other short prodomain caspases(caspase-3, caspase-6, and caspase-7), Caspase 14 was not processed by multiple death stimuli including activation of members of the tumor necrosis factor receptor family and expression of proapaptotic members of the bcl-2 family. Caspase 14 has been described to be processed and activated by anti-Fas agonist antibody or TNF-related apoptosis inducing ligand in vivo. The expression and processing of this caspase may take part in keratinocyte terminal differentiation, which is essential for the skin barrier.

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