Recombinant Human Complement C1r subcomponent Protein

Catalog No.: RP00142

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Sequence Information

Species
Human

Gene ID
715

Swiss Prot
P00736

Tags
C-His

Synonyms
C1R,EDSPD1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
79.05 kDa

Observed MW
15-25，35-45kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The classical complement pathway plays a major role in innate immunity against infection. This pathway is triggered by C1, a multimolecular complex composed of the recognition protein C1q and two serine proteases, C1r and C1s. Following the C1q recognition, C1r is autoactivated, and in turn activates C1s, which cleaves C4 and C2, the C1 substrates. C1r acts by transforming the activation signal into an enzymic activity. C1r is a single-chain glycoprotein which can be cleaved into an A chain and a B chain upon activation. This protien recognizes full-length C1r chain and the cleaved B chain.

Basic Information

Description
Recombinant Human Complement C1r subcomponent Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Asp705) of human Complement C1r subcomponent (Accession #NP_001724.3) fused with a 6×His tag at the C-terminus.

Activity
Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Gly-Arg-ThioBenzyl ester (Z-GR-SBzl), in the presence of 5,5' Dithio-bis (2-nitrobenzoic acid) (DTNB).The specific activity is >2828 pmol /min/μg, as measured under the described conditions.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

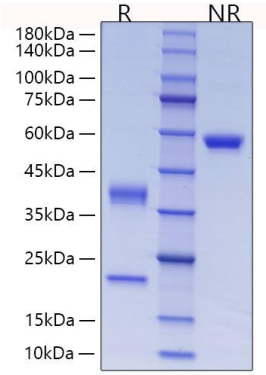
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human Complement C1r subcomponent Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.

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