

Human complement C3 (active)

Cat. No. GTX30711-pro

Applications Functional Assay**Species** Human**Package**

250 µg

PRODUCT

Summary

Native, human C3 complement component. Glycoprotein composed of two non-identical disulfide-bonded subunits with M.W. of 115 kDa (alpha) and 75 kDa (beta). Present in normal human serum at 1.25 mg/ml. Classical and alternative activation pathways of complement converge at C3 step. Activation via either pathway can result in assembly of C3-cleaving enzymes (C3 convertases) on target surfaces. Both C3 convertases cleave the C3 alpha-chain at peptide bond 77 resulting in production of C3a (M.W. 9.083kDa) and C3b fragments (M.W. 180kDa). Released C3a peptide is one of the three complement anaphylatoxins. The nascent C3b fragment can form a covalent ester bond with target surface. This covalent attachment of C3b to target acceptors is required for continuation of complement activation. This protein was purified from Human Serum (negative for HBsAg and for antibodies to HIV and HCV).

Applications

Application Note

Biological activity: >3,000 C₃H₅O units/mg; ≥6 of the C3 activity in normal human serum on a mg/mg basis.

Properties

Form Liquid**Buffer** PBS**Preservative** No preservatives**Storage** Store as concentrated solution. Aliquot and store at -20°C or below. Avoid freeze-thaw cycles.**Concentration** Batch dependent (Please refer to the vial label for the specific concentration.)**Expression System** Human Serum**Purity** ≥85% by SDS-PAGE.**Conjugation** Unconjugated**Note** For In vitro laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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