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Recombinant Human Cyclophilin A

REP0052 - REP0053
100µg - 500µg

Description

Cyclophilin A (CypA, 18 kDa) is the first peptidyl-prolyl cis-trans isomerase (PPIase) to be discovered; PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. Cyclophilins belong to the superfamily of immunophilins, highly conserved cytoplasmic proteins which share the PPI enzymatic activity and the ability to bind immunosuppressive drugs. CypA binds to and mediates the effect of Cyclosporin A; the CsA/CypA complex selectively binds and inactivates the serine/threonine phosphatase calcineurin leading to disruption of T-cells activating cascade. CsA binding occurs at the active site of the protein thus inhibiting its enzymatic activity. CypA has been demonstrated to be involved in several steps of viral infections such as those mediated by HIV, HBV and HCV.

Product type

Recombinant protein

Peptide

Full length protein: Human CYPA protein fused with His-tag (N-terminus) – Accession number: **NM_021130.3**

Expression system

Escherichia coli

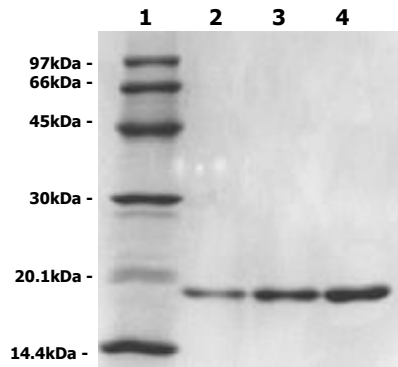
Tested by

Western Blotting, SDS Page.

Purity

>99% pure as estimated by SDS-PAGE (EU Ph. 5.0 § 2.5.31)

Purified recombinant human cyclophilin A protein (lane 1, molecular weight standard; lane 2, 2µg; lane 3, 4µg; lane 4, 6µg) was separated by SDS-PAGE (14% polyacrylamide) and stained with Coomassie Blue.



Form

Liquid

Storage buffer

20mM Tris pH 8.0, 20mM NaCl, 0.5mM DTT, 10%(v/v) glycerol.

Storage instructions

Shipped on dry ice. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.