

Recombinant Human CYBB Protein (283-570 aa), His-SUMO-tagged

Cat. No. CYBB-443H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYBB Protein (283-570 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Cancer. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	283-570 aa
Description	Critical component of the mbrane-bound oxidase of phagocytes that generates superoxide. It is the terminal component of a respiratory chain that transfers single electrons from Cytoplasmic domain NADPH across the plasma mbrane to molecular oxygen on the exterior. Also functions as a voltage-gated proton channel that mediates the H ⁺ currents of resting phagocytes. It participates in the regulation of cellular pH and is blocked by zinc.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	49.2 kDa
AA Sequence	ERLVRFWRSQQKVVITKVVTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSKEWHP FTLTSAPEEDFFSIHIRIVGDWTEGLFNACGCDKQEFQDAWKLPKIAVDGPFGTASE DVFSYEVVMLVGAGIGVTPFASILKSVWYKYCNNATNLKLKKIYFYWLCDTHAFEW

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	FADLLQLLESQMQRNAGFLSYNIYLTGWDESQANHFVHHDEEKDVITGLKQKTL YGRPNWDNEFKTIASQHPNTRIGVFLCGPEALAEATLSKQSSNSESGPRGVHFIFNK ENF
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name	CYBB cytochrome b-245, beta polypeptide [Homo sapiens]
Official Symbol	CYBB
Synonyms	CYBB; NOX2; CGD91-phox; NADPH oxidase 2; CGD; AMCBX2; GP91-1; GP91PHOX; p91-PHOX; GP91-PHOX;
Gene ID	1536
mRNA Refseq	NM_000397
Protein Refseq	NP_000388

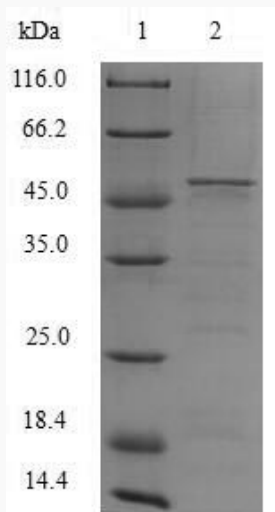
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MIM 300481

UniProt ID P04839



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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