

Recombinant Human DUOX1 Protein, MYC/DDK-tagged

Cat. No. DUOX1-2713H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human DUOX1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
Description	<p>The protein encoded by this gene is a glycoprotein and a member of the NADPH oxidase family. The synthesis of thyroid hormone is catalyzed by a protein complex located at the apical membrane of thyroid follicular cells. This complex contains an iodide transporter, thyroperoxidase, and a peroxide generating system that includes proteins encoded by this gene and the similar DUOX2 gene. This protein is known as dual oxidase because it has both a peroxidase homology domain and a gp91phox domain. This protein generates hydrogen peroxide and thereby plays a role in the activity of thyroid peroxidase, lactoperoxidase, and in lactoperoxidase-mediated antimicrobial defense at mucosal surfaces. Two alternatively spliced transcript variants encoding the same protein have been described for this gene.</p>
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	177.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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GENE INFORMATION

Gene Name DUOX1 dual oxidase 1 [Homo sapiens]

Official Symbol DUOX1

Synonyms LNOX1; NOXEF1; THOX1

Gene ID 53905

mRNA Refseq NM_017434

Protein Refseq NP_059130

MIM 606758

UniProt ID Q9NRD9

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