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	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.
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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