Active Recombinant Full Length Human HSD11B1 Protein, C-Flag-tagged

Cat. No. HSD11B1-22HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HSD11B1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a microsomal enzyme that catalyzes the conversion of the stress hormone cortisol to the inactive metabolite cortisone. In addition, the encoded protein can catalyze the reverse reaction, the conversion of cortisone to cortisol. Too much cortisol can lead to central obesity, and a particular variation in this gene has been associated with obesity and insulin resistance in children. Mutations in this gene and H6PD (hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)) are the cause of cortisone reductase deficiency. Alternate splicing results in multiple transcript variants encoding the same protein.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Enzyme activity
Molecular Mass	32.2 kDa
AA Sequence	MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAYHLAKM GAHVVVTARSKET LQKVVSHCLELGAASAHYIAGTMEDMTFAEQFVAQAGKLMGG

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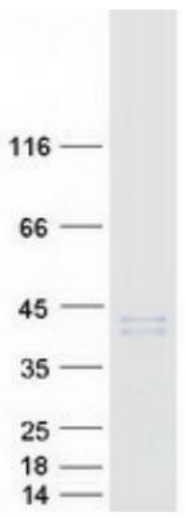
	LDMLILNHITNTSLNLFHDDIHHVRKSM EVNFLSYVVLTVAALPMLKQSNGSIVVVSS LAGKVAYPMVAAYSASKFALDGFFSSIRKEYSVSRVNVSI TLCVLGLIDTETAMKAVS GIVHMQAAPKEECALEIIKGGALRQEEVYYDSSLWTTLLIRNPCRKILEFLY STSYNMDRFINKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	HSD11B1 hydroxysteroid 11-beta dehydrogenase 1 [Homo sapiens (human)]
Official Symbol	HSD11B1
Synonyms	HDL; 11-DH; HSD11; HSD11B; HSD11L; CORTRD2; SDR26C1; 11-beta-HSD1

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Gene ID	3290
mRNA Refseq	NM_181755.3
Protein Refseq	NP_861420.1
MIM	600713
UniProt ID	P28845



Coomassie blue staining of purified HSD11B1 protein.

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