

Recombinant Human HSD11B1 Protein, His-tagged

Cat. No. HSD11B1-019H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSD11B1 protein with a N-terminal His-tag was expressed in E.coli
Species	Human
Source	E.coli
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.
Molecular Mass	31.4 kDa
Purity	≥75% estimated by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to produce 1 nmol of cortisol per minute at 37 centigrade in 50 mM sodium phosphate buffer, pH 7.6, containing 100 mM sodium chloride, using 40 μM cortisone as substrate, and 500 μM NADPH.
Stability	≥ 6 months

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Storage	-80 centigrade
Storage Buffer	50 mM sodium phosphate buffer, pH 7.6, containing 100 mM sodium chloride and 20% glycerol
Shipping	Dry ice in continental US, may vary elsewhere.

GENE INFORMATION

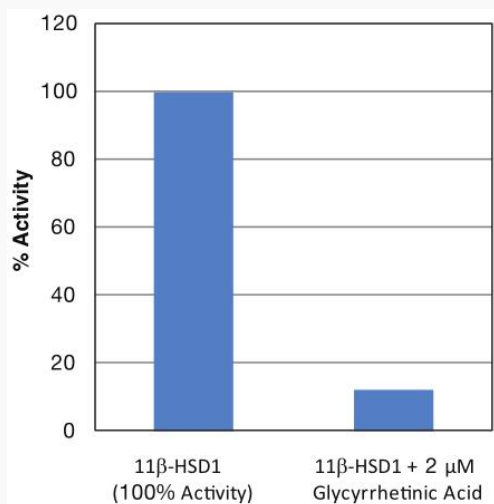
Gene Name	HSD11B1 hydroxysteroid 11-beta dehydrogenase 1 [Homo sapiens (human)]
Official Symbol	HSD11B1
Synonyms	HSD11B1; hydroxysteroid 11-beta dehydrogenase 1; HDL; 11-DH; HSD11; HSD11B; HSD11L; CORTRD2; SDR26C1; 11-beta-HSD1; corticosteroid 11-beta-dehydrogenase isozyme 1; short chain dehydrogenase/reductase family 26C member 1; EC 1.1.1.146
Gene ID	3290
mRNA Refseq	NM_001206741
Protein Refseq	NP_001193670
MIM	600713
UniProt ID	P28845

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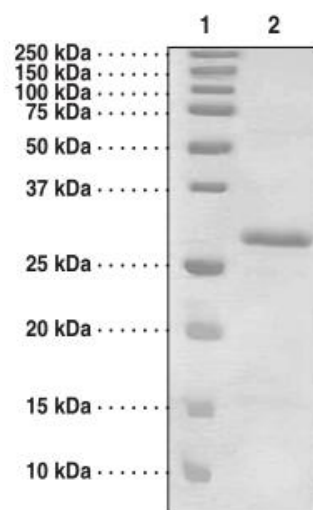
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Activity of HSD11B1



SDS-PAGE analysis of HSD11B1



Lane 1: MW Marker

Lane 2: 5 μg Purified 11β-HSD1

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