

Recombinant Human HSD11B2 protein, MYC/DDK-tagged

Cat. No. HSD11B2-13951H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSD11B2 fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
Description	There are at least two isozymes of the corticosteroid 11-beta-dehydrogenase, a microsomal enzyme complex responsible for the interconversion of cortisol and cortisone. The type I isozyme has both 11-beta-dehydrogenase (cortisol to cortisone) and 11-oxoreductase (cortisone to cortisol) activities. The type II isozyme, encoded by this gene, has only 11-beta-dehydrogenase activity. In aldosterone-selective epithelial tissues such as the kidney, the type II isozyme catalyzes the glucocorticoid cortisol to the inactive metabolite cortisone, thus preventing illicit activation of the mineralocorticoid receptor. In tissues that do not express the mineralocorticoid receptor, such as the placenta and testis, it protects cells from the growth-inhibiting and/or pro-apoptotic effects of cortisol, particularly during embryonic development. Mutations in this gene cause the syndrome of apparent mineralocorticoid excess and hypertension.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	43.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name HSD11B2 hydroxysteroid (11-beta) dehydrogenase 2 [Homo sapiens]

Official Symbol HSD11B2

Synonyms HSD11B2; hydroxysteroid (11-beta) dehydrogenase 2; corticosteroid 11-beta-dehydrogenase isozyme 2; SDR9C3; short chain dehydrogenase/reductase family 9C; member 3; 11-DH2; 11-beta-HSD2; -HSD11 type II; 11-beta-hydroxysteroid dehydrogenase type 2; 11-beta-hydroxysteroid dehydrogenase type II; NAD-dependent 11-beta-hydroxysteroid dehydrogenase; short chain dehydrogenase/reductase family 9C member 3; AME; AME1; HSD2; HSD11K;

Gene ID 3291

mRNA Refseq NM_000196

Protein Refseq NP_000187

MIM 614232

UniProt ID P80365

Chromosome Location 16q22

Pathway Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; C21-Steroid hormone biosynthesis, progesterone => cortisol/cortisone, organism-specific

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biosystem; C21-Steroid hormone biosynthesis, progesterone => cortisol/cortisone, conserved biosystem; Glucocorticoid and

Function

11-beta-hydroxysteroid dehydrogenase [NAD(P)] activity; NAD binding; oxidoreductase activity; steroid binding;

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