

Recombinant Human HSD11B2 Protein, His-tagged

Cat. No. HSD11B2-2257H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSD11B2 Protein (Met105-Arg405) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met105-Arg405
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 36.7 kDa

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	Accurate Molecular Mass: 39 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

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

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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](#)

