

Recombinant Full Length Human HSD11B2 Protein, GST-tagged

Cat. No. HSD11B2-6948HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full-length HSD11B2 (1 a.a. - 405 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	405 amino acids
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.
Molecular Mass	70.5 kDa

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AA Sequence	MERWPWPSGGAWLLVAARALLQLLRSDLRLGRPLLAALALLAALDWLCQRLLPPPA ALAVLAAAGWIALSRLARP QRLPVATRAVLITGCDSGFGKETAKKLDSMGFTVLATV LELNSPGAIELRTCCSPRLRLLQMDLTKPGDISRVLE FTKAHTTSTGLWGLVNNAGH NEVVADAELSPVATFRSCMEVNFFGALELTKGLLPLLRSSRGRIVTVGSPAGDMP Y PCLGAYGTSKAAVALLMDTFSCCELLPWGVKVSIIQPGCFKTESVRNVGQWEKRKQL LLANLPQELLQAYGKDYI EHLHGQFLHSLRLAMSDLTPVVDAITDALLAARPRRRYY PGQGLGLMYFTHYYLPEGLRRRFLQAFFISHCLPRA LQPGQPGTTPPQDAAQDPNL SPGPSPAVAR
Applications	ELISA; WB-Re; AP; Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	HSD11B2 hydroxysteroid (11-beta) dehydrogenase 2 [Homo sapiens (human)]
Official Symbol	HSD11B2
Synonyms	HSD11B2; AME; AME1; HSD2; HSD11K; SDR9C3; hydroxysteroid (11-beta) dehydrogenase 2; corticosteroid 11-beta-dehydrogenase isozyme 2; 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; NP_000187.3; EC 1.1.1.146
Gene ID	3291

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mRNA Refseq	NM_000196
Protein Refseq	NP_000187
MIM	614232
UniProt ID	P80365

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