

## Product datasheet for **TP307796M**

### **HSD11B2 (NM\_000196) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human hydroxysteroid (11-beta) dehydrogenase 2 (HSD11B2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207796 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MERWPWPSSGGAWLLVAARALLQLLRSDLRLLGRPLLAALALLAALDWLWCQRLPPPAALAVLAAAGWIALS  
RLARPQRLPVATRAVLITGCDSGFGKETAKKLDSMGFTVLATVLELNSPGAIELRTCCSPRLRLQMDLT  
KPGDISRVLEFTKAHTTSTGLWGLVNNAGHNEVVADAELSPVATFRSCMEVNFFGALELTKGLPLLRSS  
RGRIVTVGSPAGDMPYPCLGAYGTSKAAVALLMDTFCELLPWGVKVSIIQPGCFKTESVRNVGQWEKRK  
QLLLANLPQELLQAYGKDYIEHLHGQFLHSLRLAMSDLTPVDAITDALLAARPRRRYYPGQGLGLMYFI  
HYLPEGLRRRFLQAFFISHCLPRALQPGQPQTTPQDAAQGNLSPGPSPAVAR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	43.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_000187</a>
Locus ID:	3291



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UniProt ID: [P80365](#)

RefSeq Size: 1939

Cytogenetics: 16q22.1

RefSeq ORF: 1215

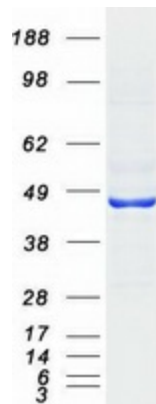
Synonyms: AME; AME1; HSD2; HSD11K; SDR9C3

**Summary:** 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. [provided by RefSeq, Feb 2010]

**Protein Families:** Druggable Genome

**Protein Pathways:** Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified HSD11B2 protein (Cat# [TP307796]). The protein was produced from HEK293T cells transfected with HSD11B2 cDNA clone (Cat# [RC207796]) using MegaTran 2.0 (Cat# [TT210002]).