

Product datasheet for PH307796

HSD11B2 (NM_000196) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HSD11B2 MS Standard C13 and N15-labeled recombinant protein (NP_000187)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207796
Predicted MW:	44.1 kDa
Protein Sequence:	>RC207796 protein sequence Red=Cloning site Green=Tags(s)

MERWPWPSGGAWLLVAARALLQLLRSDLRLGRPLLAALALLAALDWLCQRLLPPPAALAVLAAAGWIALS
RLARPQRLPVATRAVLITGCDSGFGKETAKKLDSMGFTVLATVLELNSPGAIELRTCCSPRLRLLQMDLT
KPGDISRVLEFTKAHTTSTGLWGLVNNAGHNEVVADAELSPVATFRSCMEVNFPGALELTKGLLPLLRSS
RGRIVTVGSPAGDMPYPCLGAYGTSKAAVALLMDTFSCCELLPWGVKVSIIQPQCFKTESVRNVGQWEKRR
QLLLANLPQELLQAYGKDYIEHLHGQFLHSLRLAMSDLTPVVDAITDALLAARPRRRYYPGQGLMYFI
HYYLPEGLRRRFLQAFFISHCLPRALQPGQPGTTPPQDAAQGNLSPGSPAVAR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000187</u>
RefSeq Size:	1939
RefSeq ORF:	1215
Synonyms:	AME; AME1; HSD2; HSD11K; SDR9C3
Locus ID:	3291



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UniProt ID: [P80365](#)

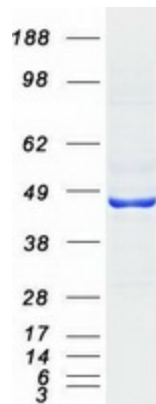
Cytogenetics: 16q22.1

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]).