

## Product datasheet for PH312093

### HSD11B1 (NM\_181755) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HSD11B1 MS Standard C13 and N15-labeled recombinant protein (NP_861420)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212093
Predicted MW:	32.4 kDa
Protein Sequence:	>RC212093 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAYHLAKMGAHVVVTARSKET LQKVVSHCLELGAASAHYIAGTMEDMTFAEQFVAQAGKLMGGLDMLILNHITNTSLNLFHDDIHHRKSM EVNFLSYVVLTVAAALPMLKQSNQSIIVVSSLAGKVAYPMVAAYSASKFALDGGFFSSIRKEYSVSRVNVSI TLCVLGLIDTETAMKAVSGIVHMQAAPKEECALEIIKGGALRQEEVYDSSLWTTLLIRNPCRKILEFLY STSYNMDRFINK  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_861420</a>
RefSeq Size:	1457
RefSeq ORF:	876
Synonyms:	11-beta-HSD1; 11-DH; CORTD2; HDL; HSD11; HSD11B; HSD11L; SDR26C1
Locus ID:	3290



[View online »](#)

UniProt ID: [P28845](#), [X5D2L1](#)

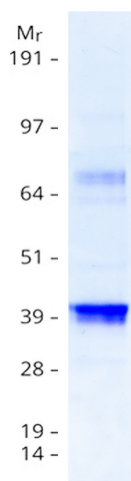
Cytogenetics: 1q32.2

**Summary:** The protein encoded by this gene is a microsomal enzyme that catalyzes the conversion of the stress hormone cortisol to the inactive metabolite cortisone. In addition, the encoded protein can catalyze the reverse reaction, the conversion of cortisone to cortisol. Too much cortisol can lead to central obesity, and a particular variation in this gene has been associated with obesity and insulin resistance in children. Mutations in this gene and H6PD (hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)) are the cause of cortisone reductase deficiency. Alternate splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, May 2011]

**Protein Families:** Druggable Genome, Transmembrane

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

### Product images:



Coomassie blue staining of purified HSD11B1 protein (Cat# [TP312093]). The protein was produced from HEK293T cells transfected with HSD11B1 cDNA clone (Cat# [RC212093]) using MegaTran 2.0 (Cat# [TT210002]).