

## SULT2A1 Protein, Human, Recombinant (His)

## General Information

Synonyms:	hSTa;HST;ST2;ST2A1;STD;DHEAS;ST2A3;sulfotransferase family, cytosolic, 2A, dehydroepiandrosterone (DHEA)-preferring, member 1;DHEA-ST
Protein Construction:	A DNA sequence encoding the human SULT2A1 (NP_003158.2) (Ser 2-Glu 285) was expressed, with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	A8K015
Molecular Weight:	35 kDa (predicted); 35 kDa (reducing conditions)

## QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile 50 mM Tris, 500 mM NaCl, 20% glycerol, pH 8.0.

## Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	Proteins are shipped with blue ice.

## Protein Background

Hydroxysteroid sulfotransferase ( SULT2A1 ) is a key enzyme in the testicular and hepatic metabolism of 5alpha-androstenone, which is a major component of the off-odor and off-flavor in pork known as boar taint. Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. These cytosolic enzymes are different in their tissue distributions and substrate specificities. The gene structure (number and length of exons) is similar among family members. SULT2A1 is a sulfo-conjugating phase II enzyme expressed at very high levels in the liver and intestine, the two major first-pass metabolic tissues, and in the steroidogenic adrenal tissue. SULT2A1 acts preferentially on the hydroxysteroids dehydroepiandrosterone, testosterone/dihydrotestosterone, and pregnenolone and on cholesterol-derived

amphipathic sterol bile acids.

Reference

Chatterjee, B. 2005, Methods Enzymol. 400:165-91.

Liu, Y. et al., 2006, Chem Res Toxicol. 19 (11):1420-5.

Sinclair, PA. et al., 2006, J Mol Endocrinol 36 (2):301-11.

Yalcin, EB. et al., 2008, Drug Metab Lett 2 (3):198-204.

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