

Human SULT2A1 / STD Protein (His Tag)

Catalog Number: 11411-H07E



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

DHEA-ST; DHEAS; HST; hSTa; ST2; ST2A1; ST2A3; STD

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.

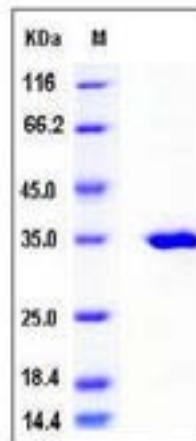
Source: Human

Expression Host: E. coli

QC Testing

Purity: > 97 % as determined by SDS-PAGE

SDS-PAGE:



Protein Description

Hydroxysteroid sulfotransferase (SULT2A1) is a key enzyme in the testicular and hepatic metabolism of 5alpha-androstanone, 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.

References

1. Chatterjee, B. 2005, Methods Enzymol. 400:165-91.
2. Liu, Y. et al., 2006, Chem Res Toxicol. 19 (11):1420-5.
3. Sinclair, P.A. et al., 2006, J Mol Endocrinol 36 (2):301-11.

Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

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