

Human SULT2B1 / HSST2 Protein (His Tag)

Catalog Number: 11410-H07E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

HSST2; SULT2B1; AI326997; BB173635; ST2B1; SULT2B

Protein Construction:

A DNA sequence encoding the human SULT2B1 (NP_004596.2) (Asp 2-Ser 365) was expressed, with a N-terminal polyhistidine tag.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 76 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human SULT2B1 comprises 371 amino acids and has a calculated molecular mass of 42 kDa. It migrates as an approximately 44 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 0.1M NaCl, 10% glycerol, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

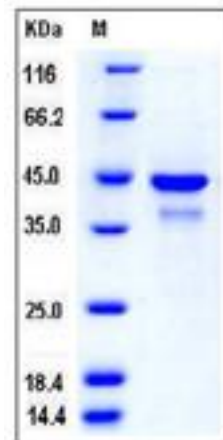
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Sulfotransferase family cytosolic 2B member 1, also known as Sulfotransferase 2B1, ST2B1, Alcohol sulfotransferase, Hydroxysteroid sulfotransferase 2, SULT2B1 and HSST2, is a cytoplasm protein which belongs to the sulfotransferase 1 family. The human hydroxysteroid sulfotransferase (SULT) family is comprised of two subfamilies, SULT2A1 and SULT2B1. SULT2B1 is expressed highly in placenta, prostate and trachea. A lesser expression of SULT1B1 was observed in the small intestine and lung. SULT2B1 catalyzes the sulfate conjugation of many hormones, neurotransmitters, drugs and xenobiotic compounds. Sulfonation increases the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. SULT2B1 sulfates hydroxysteroids like DHEA. Isoform 1 preferentially sulfonates cholesterol. The two SULT2B1 isoforms, SULT2B1a and SULT2B1b, are encoded by a single gene as a result of alternative transcription initiation and alternative splicing. SULT2B1b catalyzes the sulfonation of 3beta-hydroxysteroid hormones and cholesterol, whereas SULT2B1a preferentially catalyzes pregnenolone sulfonation.

References

1. Fujita K. et al., 1997, J. Biochem. 122:1052-61.
2. Geese, WJ. et al., 2001, Biochem Biophys Res Commun. 288 (1): 280-9.
3. Shimizu, C. et al., 2003, Endocrinology. 144 (4):1186-93.

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