

Human SULT1E1 / ST1E1 Protein (His Tag)

Catalog Number: 11275-H07E



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

EST; EST-1; MGC34459; ST1E1; STE; EST; ST1E1; Ste

Protein Construction:

A DNA sequence encoding the human SULT1E1 (NP_005411.1) (Asn 2-Ile 294) was expressed, with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 92 % 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 SULT1E1 comprises 300 amino acids and has a predicted molecular mass of 36 kDa. It migrates as an approximately 33 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris 0.5M NaCl, 20% 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:

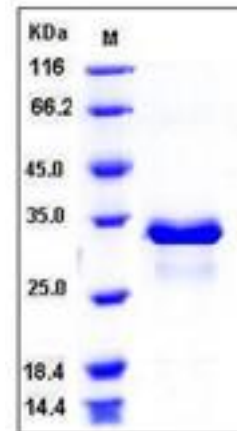
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Estrogen sulfotransferase, also known as Sulfotransferase, estrogen-preferring, Sulfotransferase 1E1, SULT1E1 and ST1E1, is a cytoplasmic enzyme which belongs to the sulfotransferase 1 family. 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. SULT1E1 may control the level of the estrogen receptor by sulfurylating free estradiol. SULT1E1 maximally sulfates beta-estradiol and estrone at concentrations of 20 nM. SULT1E1 also sulfates dehydroepiandrosterone, pregnenolone, ethinylestradiol, equalenin, diethylstilbesterol and 1-naphthol, at significantly higher concentrations; however, cortisol, testosterone and dopamine are not sulfated. SULT1E1 is a key enzyme in estrogen homeostasis. It plays a central role in the prevention and development of human disease.

References

1. Bernier F, et al., 1994, J Biol Chem. 269 (45): 28200-5.
2. Strausberg RL, et al., 2003, Proc. Natl. Acad. Sci. 99 (26): 16899-903.
3. Cole, GB. et al., 2010, Proc Natl Acad Sci USA. 107 (14): 6222-7.

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Fax : +86-10-51029969 • Tel: +86-400-890-9989 • <http://www.sinobiological.com>