



Recombinant Protein Technical Manual
Recombinant Human SULT1E1/ST1E1 Protein (His
Tag)
RPES1580

Product Data:

Product SKU: RPES1580

Size: 20µg

Species: Human

Expression host: E. coli

Uniprot: NP_005411.1

Protein Information:

Molecular Mass: 36 kDa

AP Molecular Mass: 33 kDa

Tag: N-His

Bio-activity:

Purity: > 92 % as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 20mM Tris 0.5M NaCl, 20% glycerol, pH 8.0

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: EST;EST;MGC34459;ST1E1;STE

Immunogen Information:

Sequence: Asn 2-Ile 294

Background:

Estrogen sulfotransferase, also known as Sulfotransferase, estrogen-preferring, Sulfotransferase 1E1, SULT1E1 and ST1E1, is a cytoplasm 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.