



Recombinant Protein Technical Manual

Recombinant Human SULT1A1 Protein (His Tag)

RPES2651

Product Data:

Product SKU: RPES2651

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P50225

Protein Information:

Molecular Mass: 35.5 kDa

AP Molecular Mass: 32 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, 1mM EDTA, pH 8.0.

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

Application:

Synonyms: Sulfotransferase 1A1; ST1A1; Aryl sulfotransferase 1; HAST1/HAST2; Phenol Sulfotransferase 1; Phenol-Sulfating Phenol Sulfotransferase 1; P-PST 1; ST1A3; Thermostable Phenol Sulfotransferase; Ts-PST; SULT1A1; STP; STP1; OK/SW-cl.88

Immunogen Information:

Sequence: Met 1-Leu295

Background:

Sulfotransferase 1A1 (SULT1A1) is a cytosolic sulfotransferases that is expressed in the liver, lung, adrenal, brain, platelets, and skin. SULT1A1 is a phenol sulfotransferases with thermostable enzyme activity. SULT1A1 utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of catecholamines, phenolic drugs and neurotransmitters. It is responsible for the sulfonation and activation of minoxidil. SULT1A1 mediates the metabolic activation of carcinogenic N-hydroxyarylamines to DNA binding products and could so participate as modulating factor of cancer risk.