

Recombinant Human SULT1A3 Protein (His Tag)

Catalog Number:PKSH031128



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms

Sulfotransferase 1A3/1A4;ST1A3/ST1A4;Aryl Sulfotransferase 1A3/1A4;Catecholamine-Sulfating Phenol Sulfotransferase;HAST3;M-PST;Monoamine-Sulfating Phenol Sulfotransferase;Placental Estrogen Sulfotransferase;Sulfotransferase Monoamine-Preferring;Thermolabile Phenol Sulfotransferase;TL-PST;SULT1A3;STM;SULT1A4;HAST;HAST3;M-PST;ST1A5;STM

Species

Human

Expression Host

E.coli

Sequence

Glu2-Leu295

Accession

NP_808220.1

Calculated Molecular Weight

30.5 kDa

Observed molecular weight

34 kDa

Tag

N-His

Bioactivity

Measured by its ability to transfer sulfate from PAPS to 1-Naphthol. The specific activity is > 150 pmoles/min/μg.

Properties

Purity

> 94 % as determined by reducing SDS-PAGE.

Endotoxin

Please contact us for more information.

Storage

Generally, 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, 500mM NaCl, pH 7.4

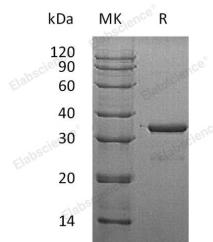
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution

Please refer to the printed manual for detailed information.

Data



> 94 % as determined by reducing SDS-PAGE.

Background

SULT1A3 belongs to the sulfotransferase 1 family. Sulfotransferase enzymes catalyze the sulfate conjugation of many

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hormones, neurotransmitters, drugs, and xenobiotic compounds. They are different in their tissue distributions and substrate specificities while their gene structure (number and length of exons) is similar. SULT1A3 gene encodes a phenol sulfotransferase with thermolabile enzyme activity. Four sulfotransferase genes are located on the p arm of chromosome 16; this gene and SULT1A4 arose from a segmental duplication. It is the most centromeric of the four sulfotransferase genes. Exons of this gene overlap with exons of a gene that encodes a protein containing GIY-YIG domains (GIYD1). SULT1A3 is expressed in liver, colon, kidney, lung, brain, spleen, small intestine, placenta and leukocyte. SULT1A3 is a sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of phenolic monoamines (neurotransmitters such as dopamine, norepinephrine and serotonin) and phenolic and catechol drugs.

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