

SULT1A1 Protein, Mouse, Recombinant (His & Myc)

General Information

Synonyms:	Stp;Sulfotransferase 1A1;Stp1;Sult1a1;St1a1;Aryl sulfotransferase;Phenol sulfotransferase;ST1A4;Sulfokinase;Phenol/aryl sulfotransferase (mSTp1)
Protein Construction:	1-291 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	P52840
Molecular Weight:	39.0 kDa (predicted)
AA Sequence:	MEPLRKPLVPVKGIPLIKIFAETMEQLQNFTAWPDDVLISTYPKSGTNWMSEIMDMIYQGGKLDKCGRAPVY ARIPFLEFSCPGVPPGLETLKETPAPRIIKTHLPLSLLPQSLLDQKIKVIYVARNAKDVVVSYYNFYKMAKLHPDP GTWESFLENFMDGKVSYSYQHVKEWWELRRTHPVLVLYFYEDMKENPKREIKKILEFLGRSLPEETVDLIVH HTSFKKMKENPMANYTTIPTTEVMDHTIYPFMRKGTIGDWKNTFTVAQSEHFDAHYAKLMTGCDFTFRCQI

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of a wide variety of acceptor molecules bearing a hydroxyl or an amine group. Sulfonation increases

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the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. Displays broad substrate specificity for small phenolic compounds. Plays an important role in the sulfonation of endogenous molecules such as steroid hormones and 3,3'-diiodothyronin. Mediates the sulfate conjugation of a variety of xenobiotics, including the drugs acetaminophen and minoxidil. Mediates also the metabolic activation of carcinogenic N-hydroxyarylamines leading to highly reactive intermediates capable of forming DNA adducts, potentially resulting in mutagenesis.

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